

2 / 85

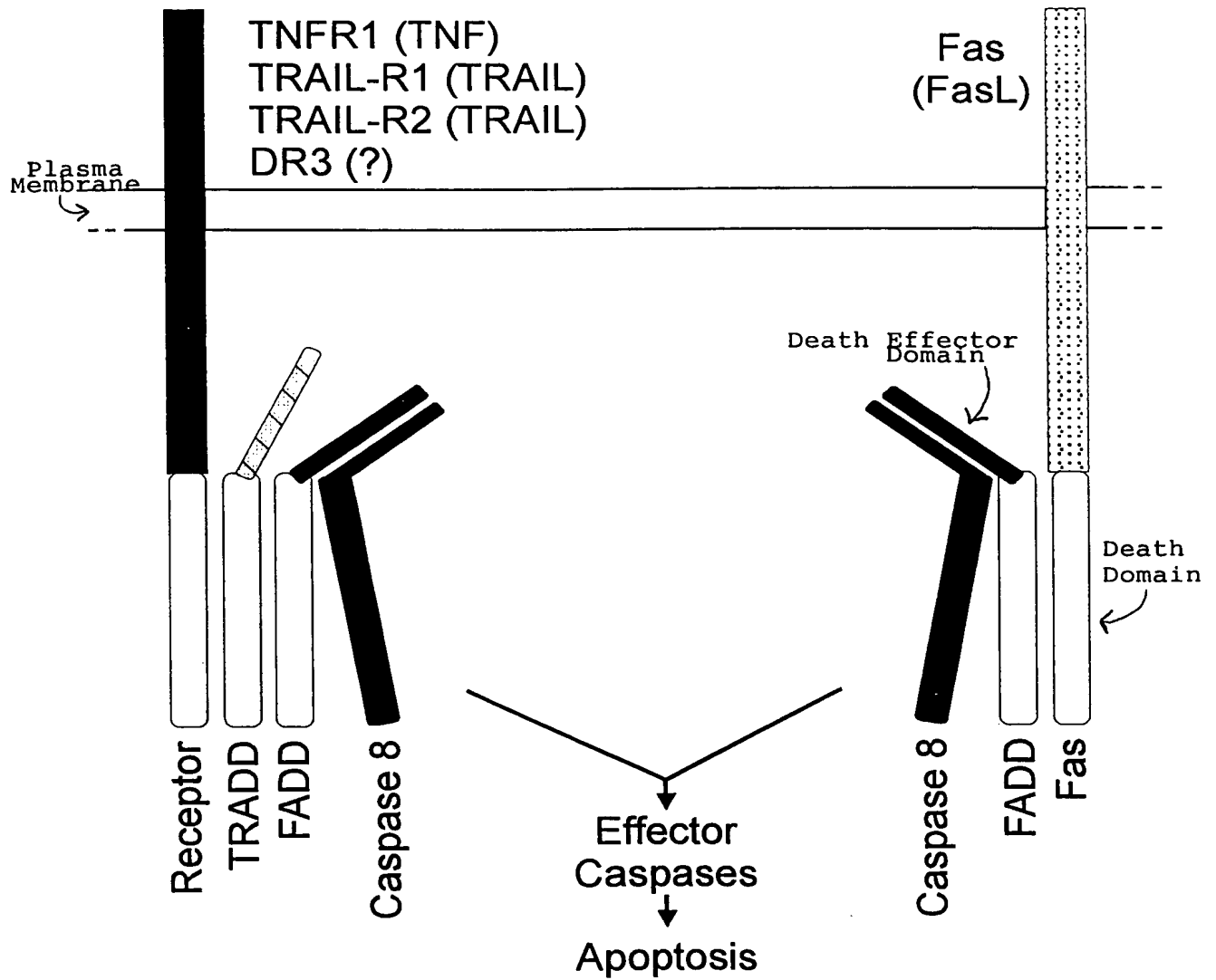


FIGURE 2

4/85

RID α -L (10.4K-L)

10 20
M I P R V L I L L T L V A L F C A C S T L A A V A H I E
signal sequence
30 40 50
V D C I P P F T V Y L L Y G F V T L I L I C S L V T V V
* transmembrane
60 70 80
I A F I Q F I D W V C V R I A Y L R H H P Q Y R D R T I
90
A D L L R I L

Figure 4A

RID α -S (10.4K-S)

10 20
A V A H I E V D C I P P F T V Y L L Y G F V T L I L I C
* transmembrane
30 40 50
S L V T V V I A F I Q F I D W V C V R I A Y L R H H P Q
60
Y R D R T I A D L L R I L

Figure 4B

5/85

Pre-RID β (14.5K)

```

          10                                20
M K F T V T F L L I I C T L S A F C S P T S K P Q R H I
      signal sequence

    30                                40                                50
S C R F T R I W N I P S C Y N E K S D L S E A W L Y A I

          60                                70                                80
I S V M V F C S T I L A L A I Y P Y L D I G W N A I D A
      Transmembrane

          90                                100                                110
M N H P T F P A P A M L P L Q Q V V A G G F V P A N Q P

          120                                130
R P P S P T P T E I S Y F N L T G G D D
      *                                *

```

Figure 4C

Mature-RID β (14.5K)

```

          10                                20
S P T S K P Q R H I S C R F T R I W N I P S C Y N E K S

    30                                40                                50
D L S E A W L Y A I I S V M V F C S T I L A L A I Y P Y
      Transmembrane

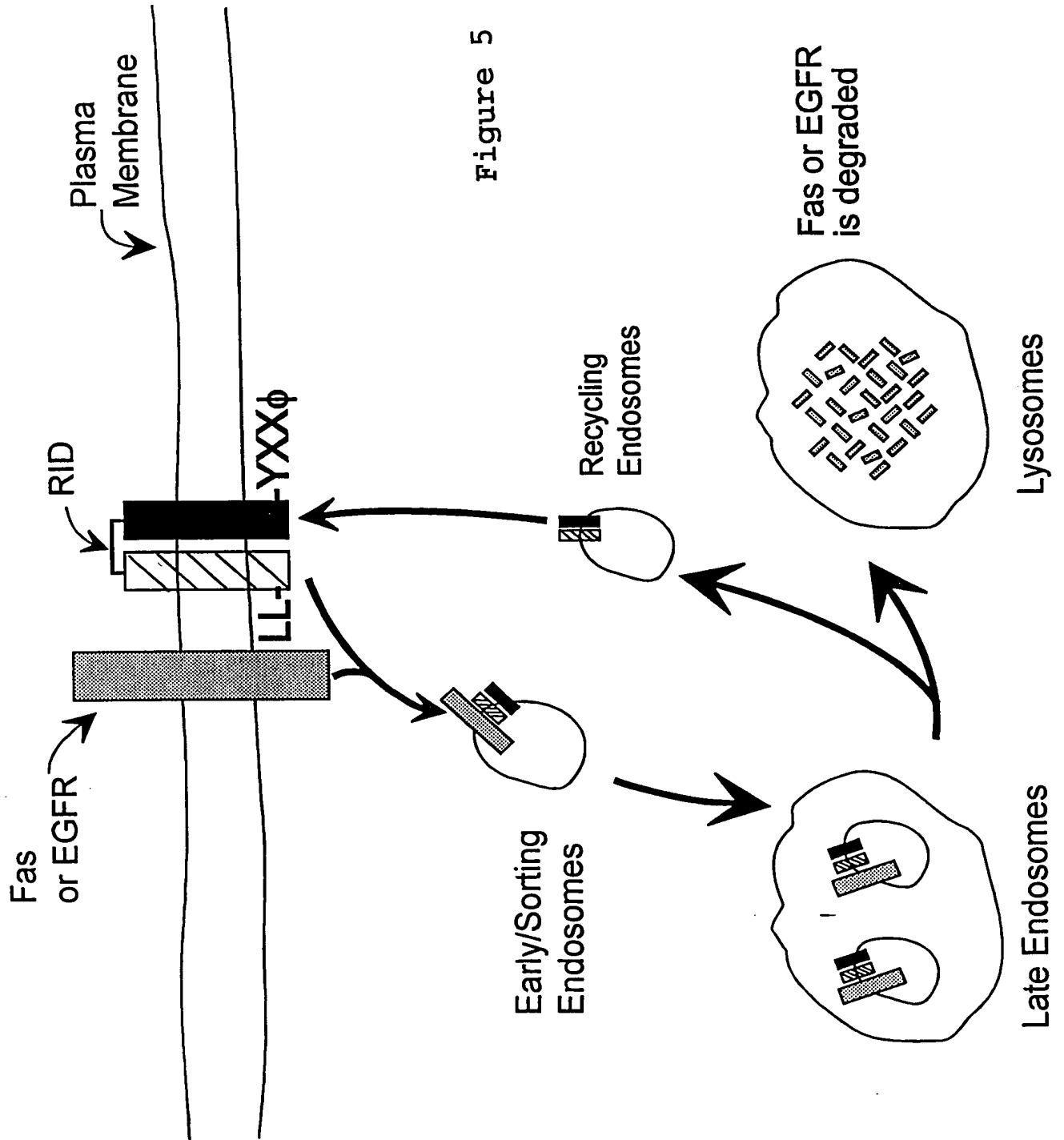
          60                                70                                80
L D I G W N A I D A M N H P T F P A P A M L P L Q Q V V

          90                                100                                110
A G G F V P A N Q P R P P S P T P T E I S Y F N L T G G
      *                                *

D D

```

Figure 4D



7 / 85

rec700, anti-DPB



Figure 6A

rec700, DAPI



Figure 6B

RID, anti-RID β

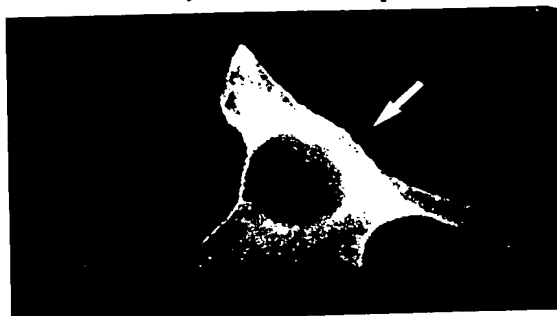


Figure 6C

RID, DAPI

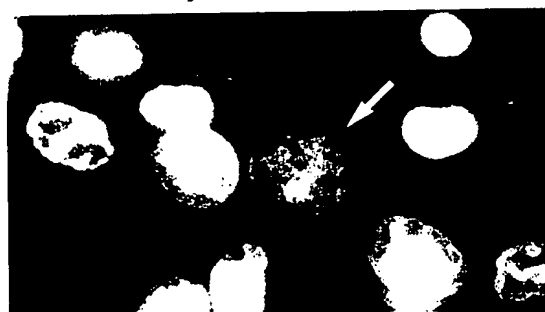


Figure 6D

8/85

Figure 7B

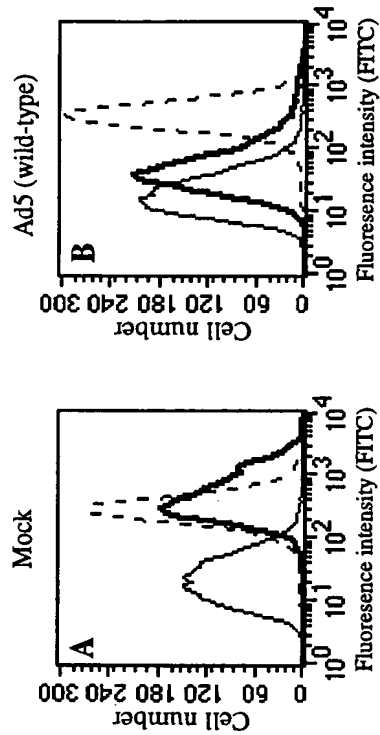


Figure 7A

Figure 7D

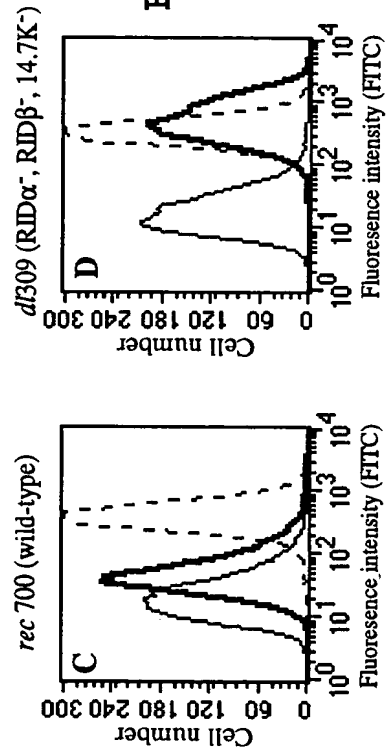


Figure 7C

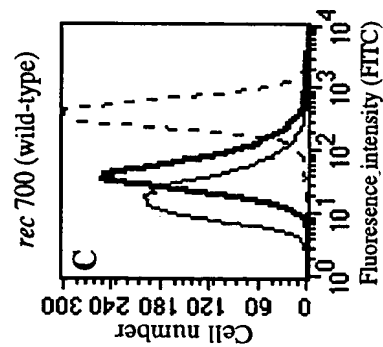


Figure 7F

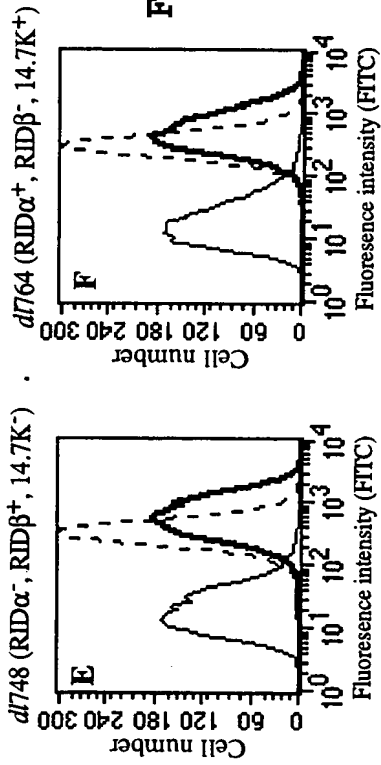


Figure 7H

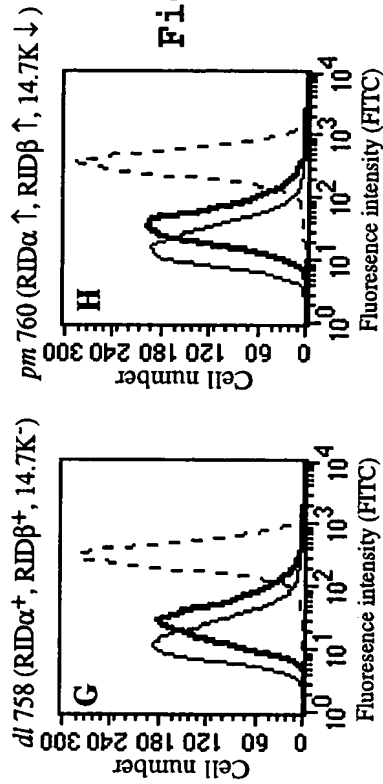


Figure 7E

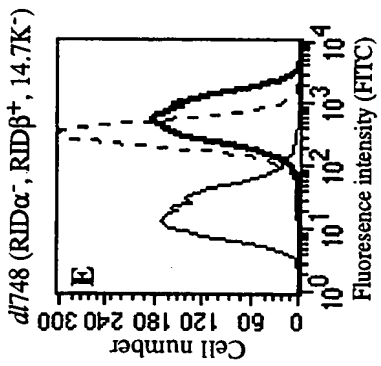
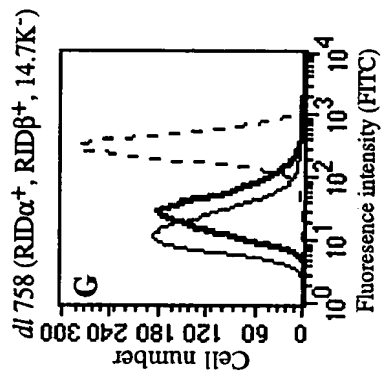


Figure 7G



10/85

Figure 8B

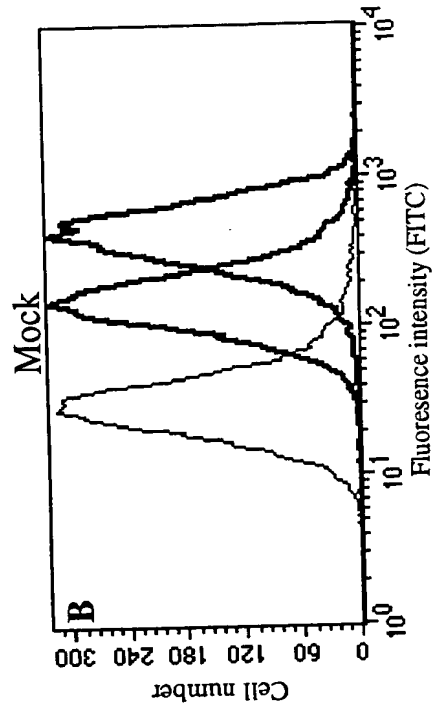


Figure 8A

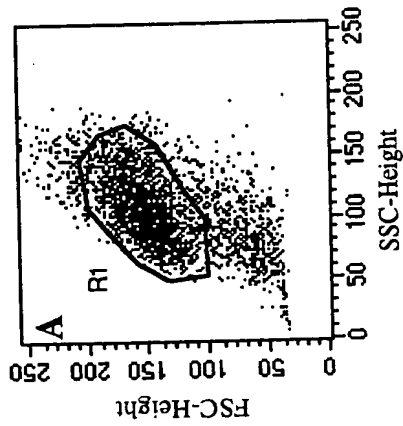


Figure 8C

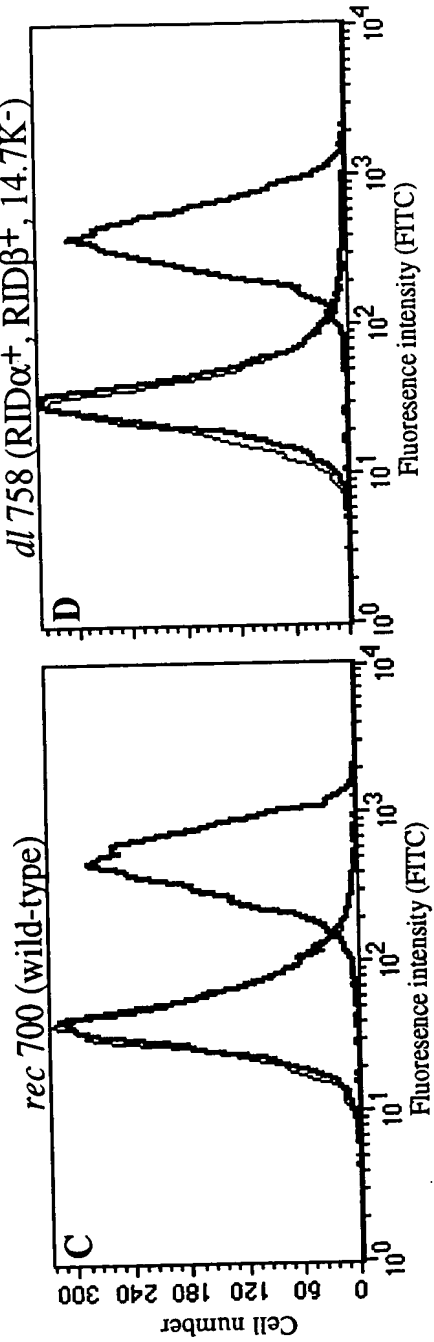


Figure 8D

Figure 8D

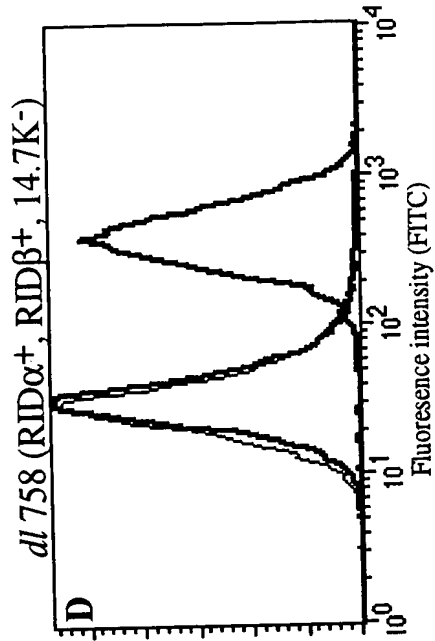


Figure 8F

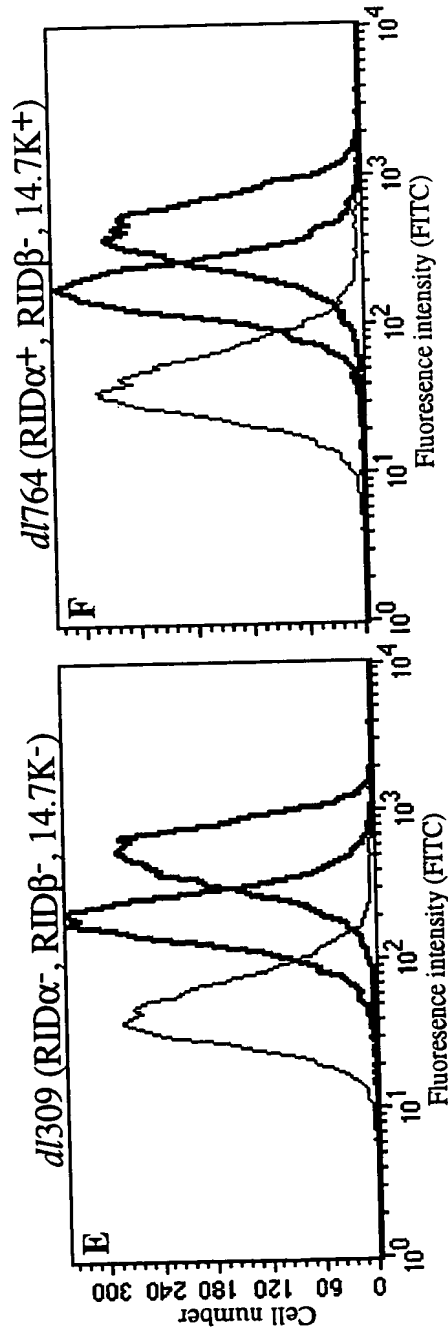


Figure 8E

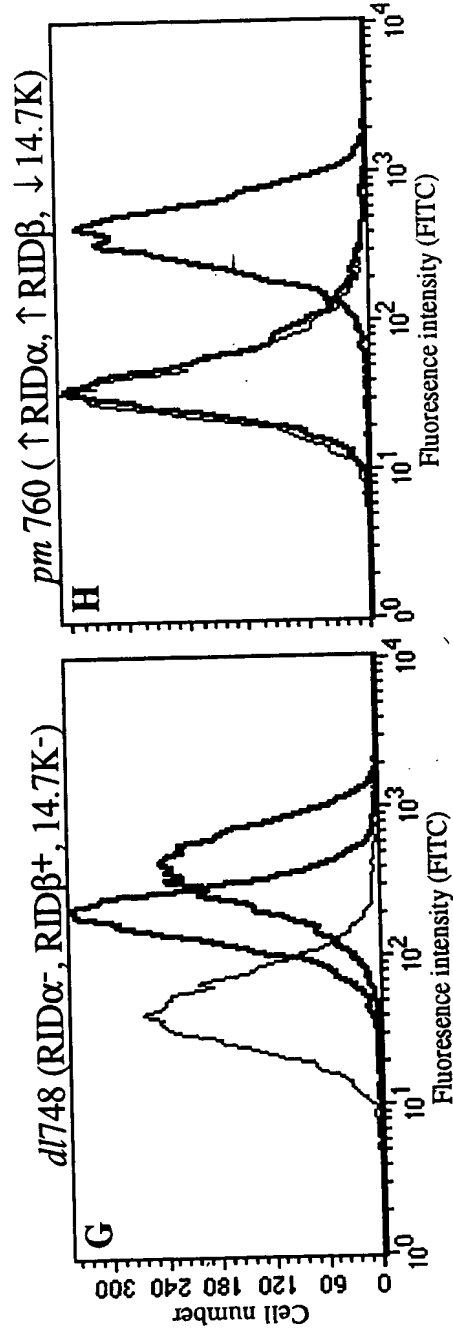


Figure 8H

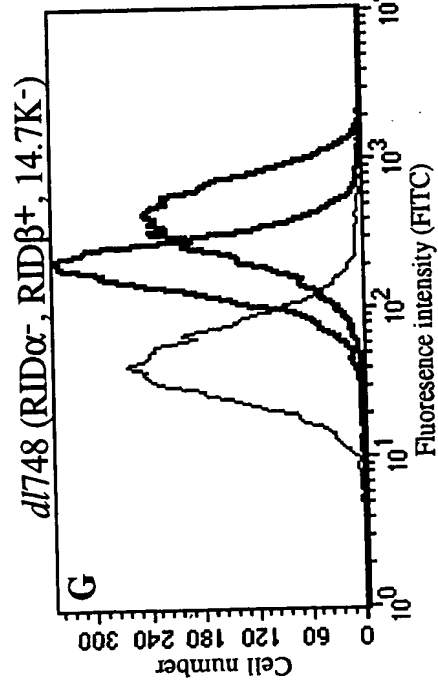


Figure 8G

12/85

Figure 9A

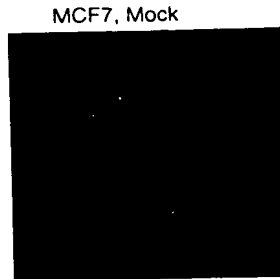


Figure 9B

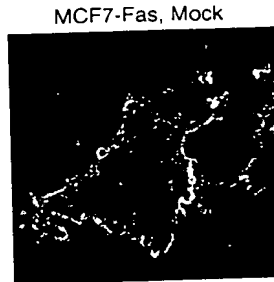


Figure 9C



Figure 9D

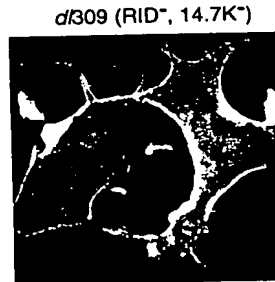


Figure 9E

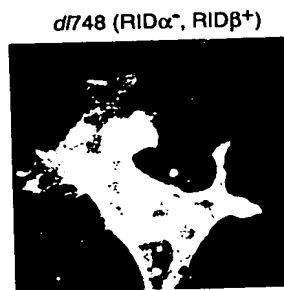


Figure 9F

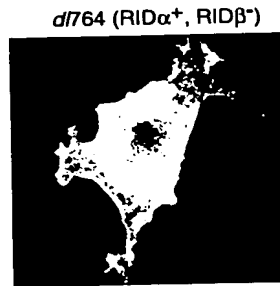


Figure 9G

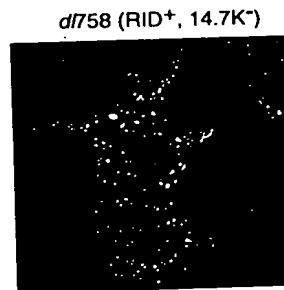
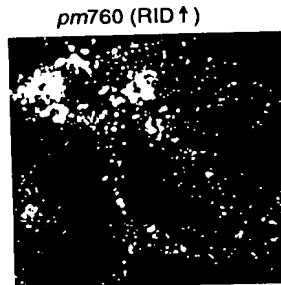


Figure 9H



13 / 85

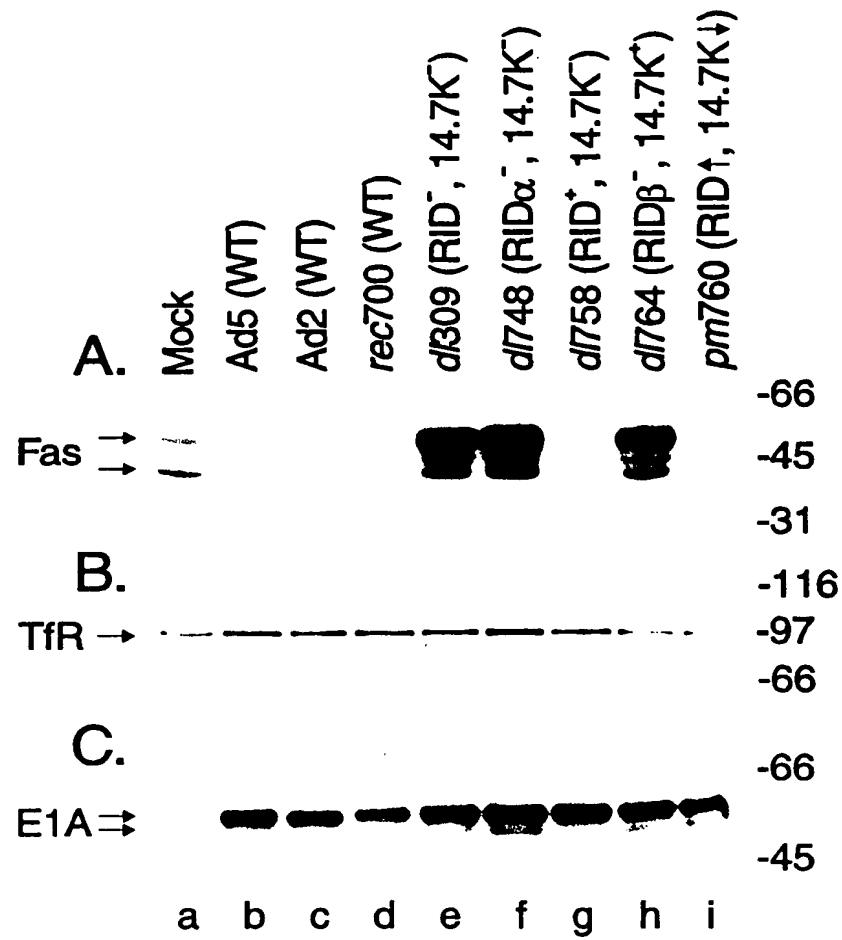


Figure 10

14 / 85

Figure 11B

RID α , anti-Fas

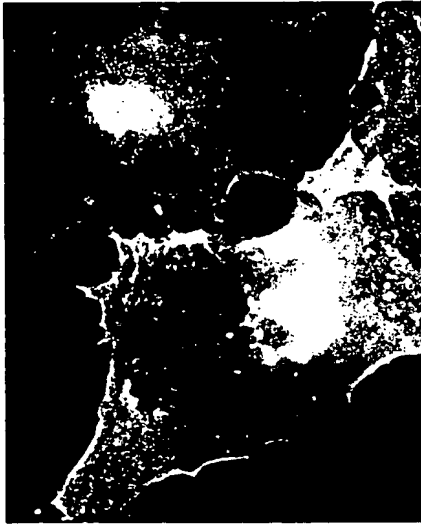
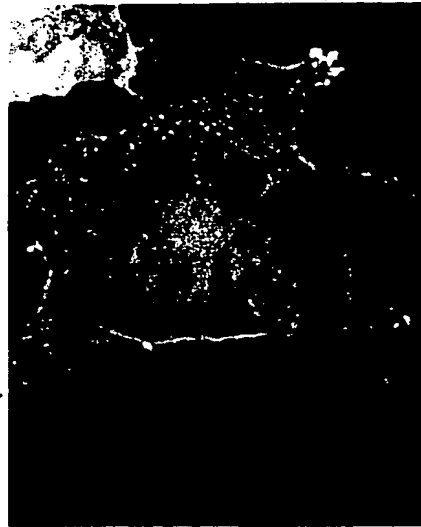


Figure 11D

RID β , anti-Fas



RID α , anti-RID α

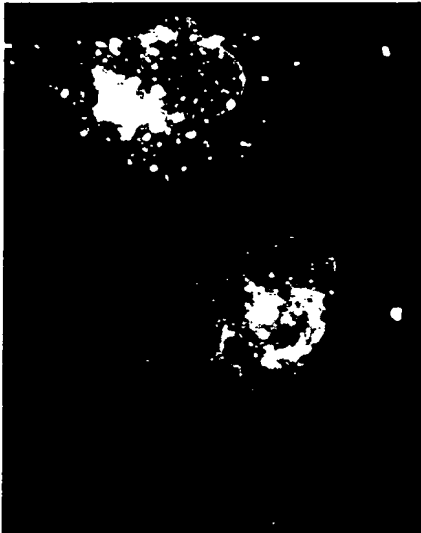


Figure 11A

RID β , anti-RID β

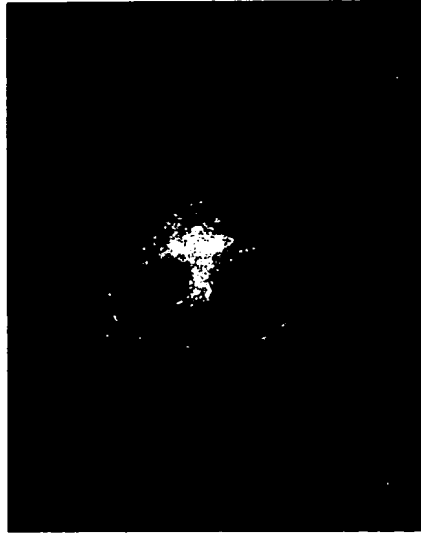


Figure 11C

RID, anti-Fas



Figure 11F

RID, anti-Fas

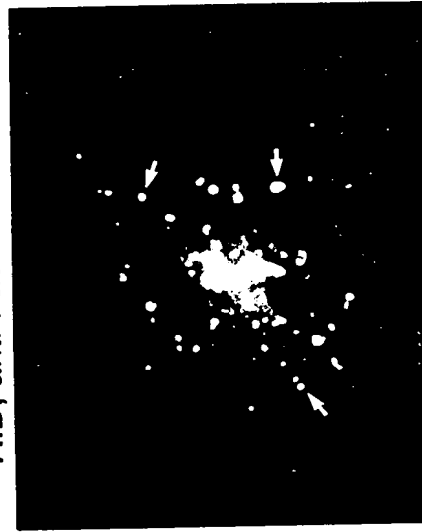


Figure 11H

RID, anti-RID α

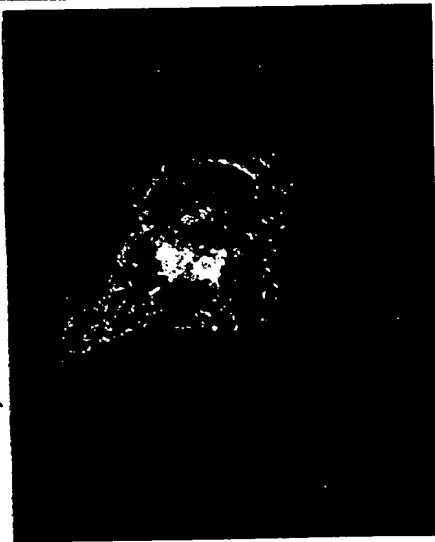


Figure 11E

RID, anti-RID β

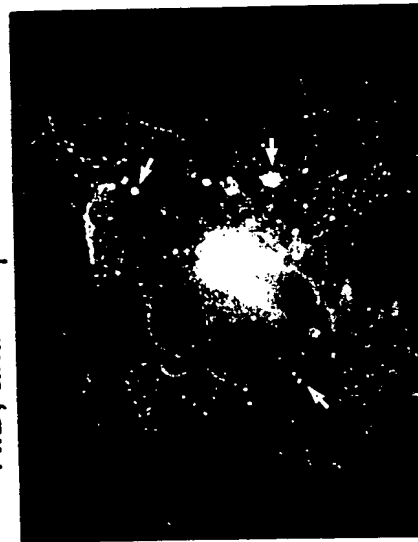


Figure 11G

16/85

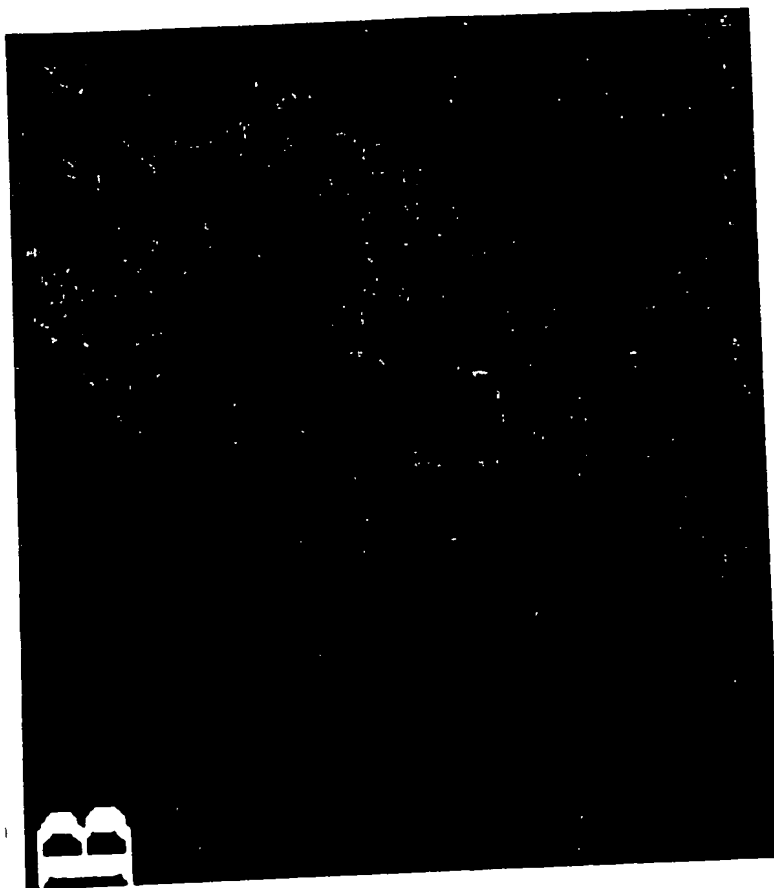


Figure 12B

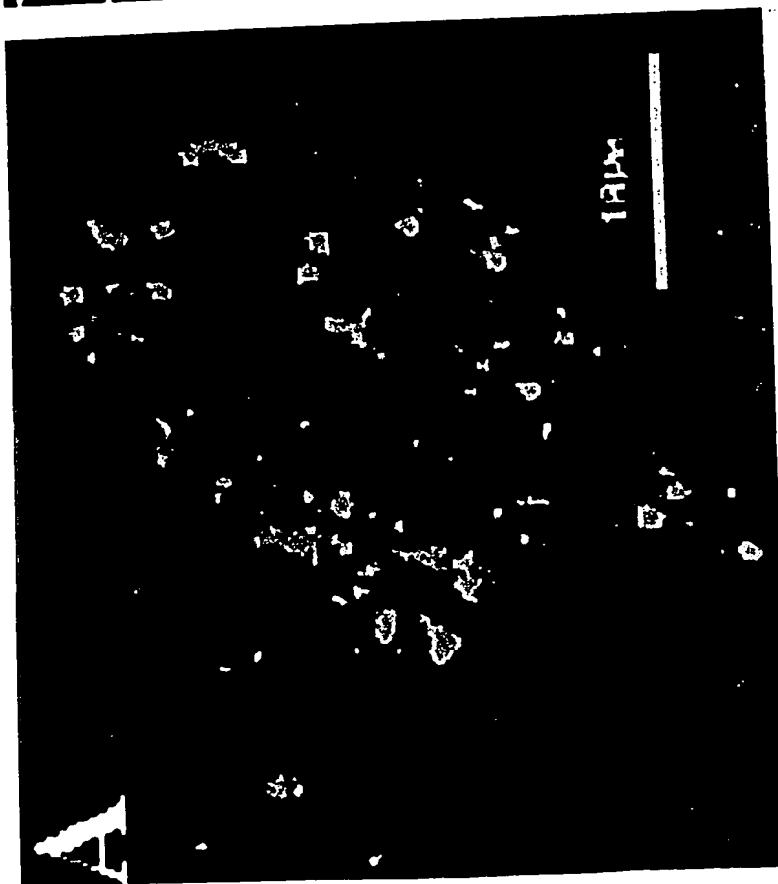


Figure 12A

17/85

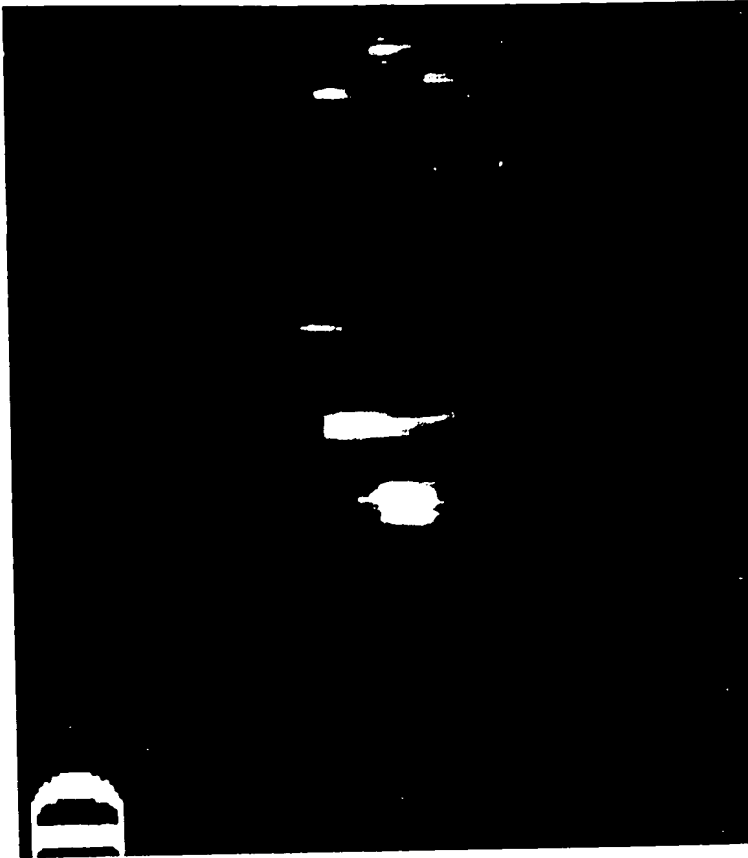


Figure 12D

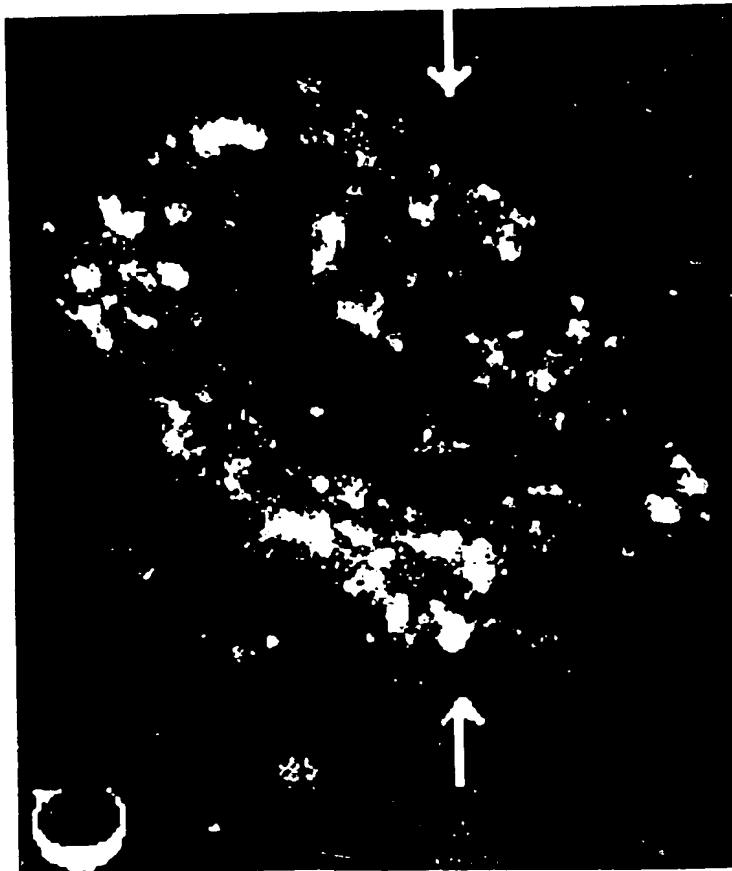


Figure 12C

rec700 (WT), Baf⁻

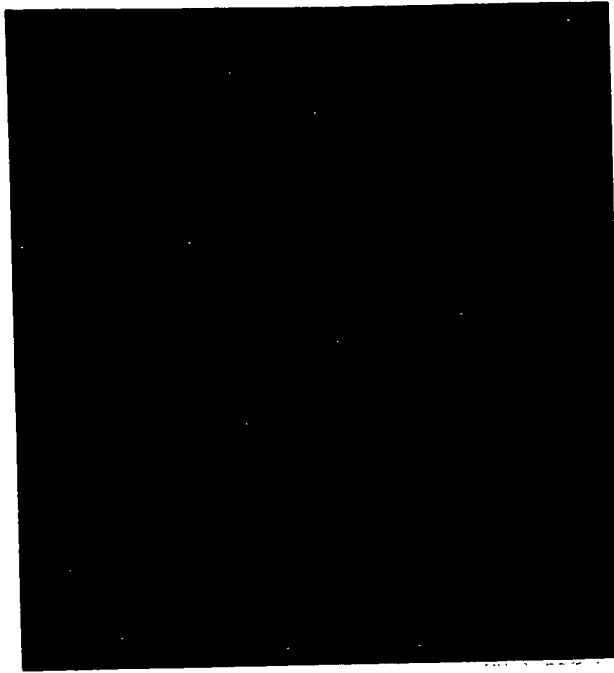


Figure 13B

rec700 (WT), Baf⁺



Figure 13A

19/85

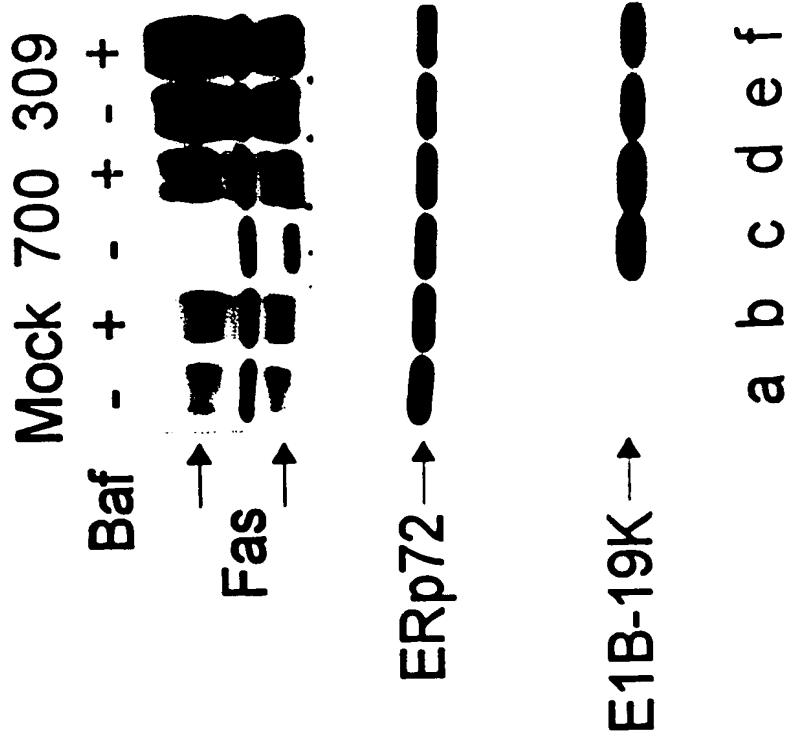


Figure 13D

d/309 (RID⁻), Baf⁺



Figure 13C

Title: Inhibiting Apoptosis Adenovirus RID Protein
Inventor(s): William S.M. Wold
Appln. No. 09/111,911
Docket # 66153-5587
20 / 85

20/85

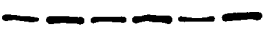
	Mock		700		309	
Baf	-	+	-	+	-	+
TfR						

Figure 13E

21/85

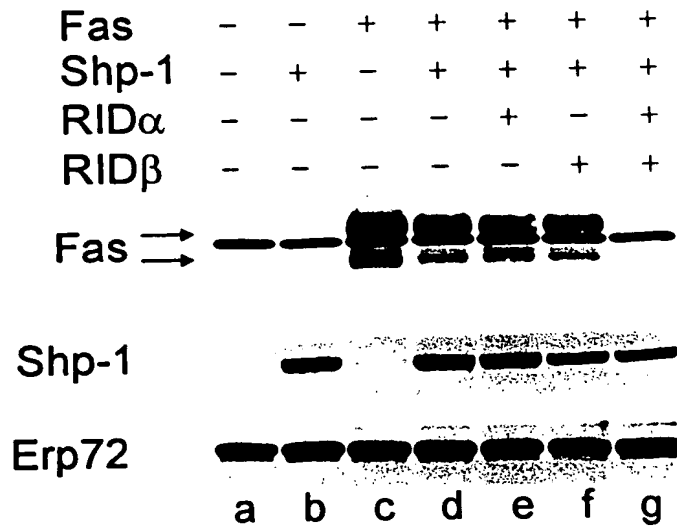


Figure 14

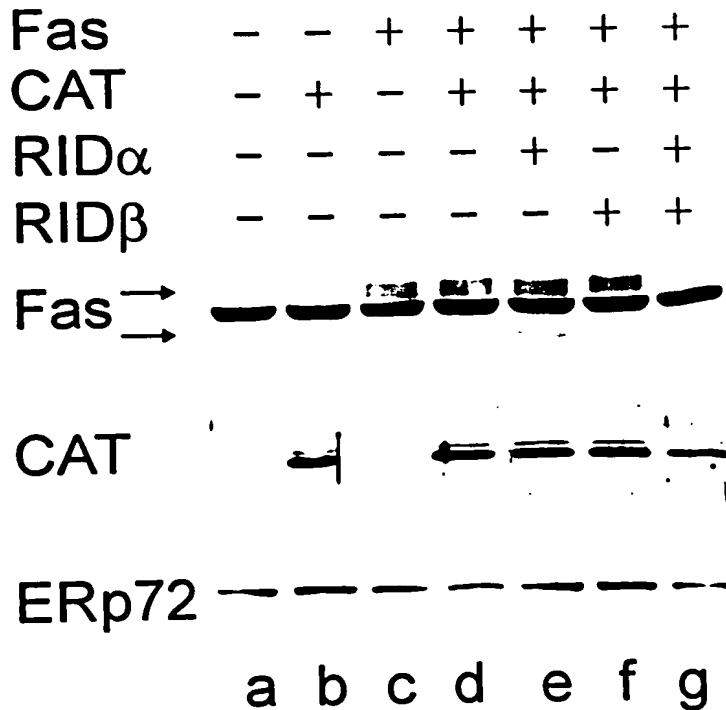


Figure 15

22 / 85

Figure 16A

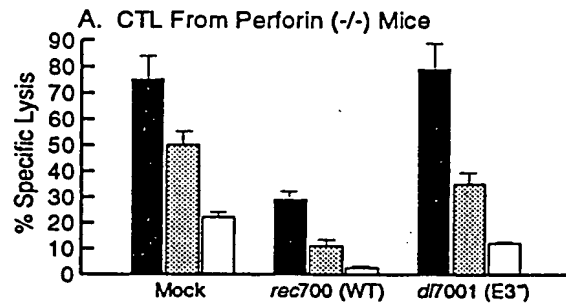


Figure 16B

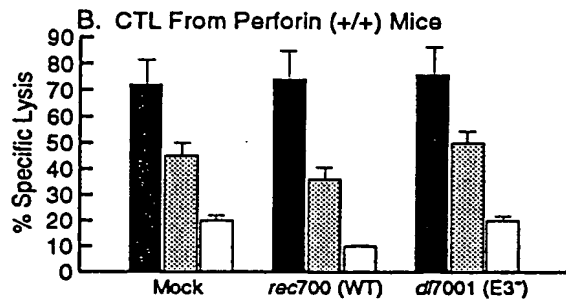
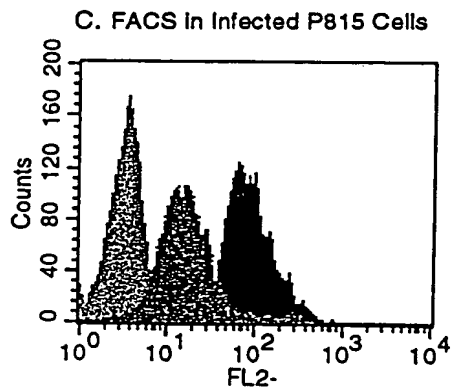


Figure 16C



23/85

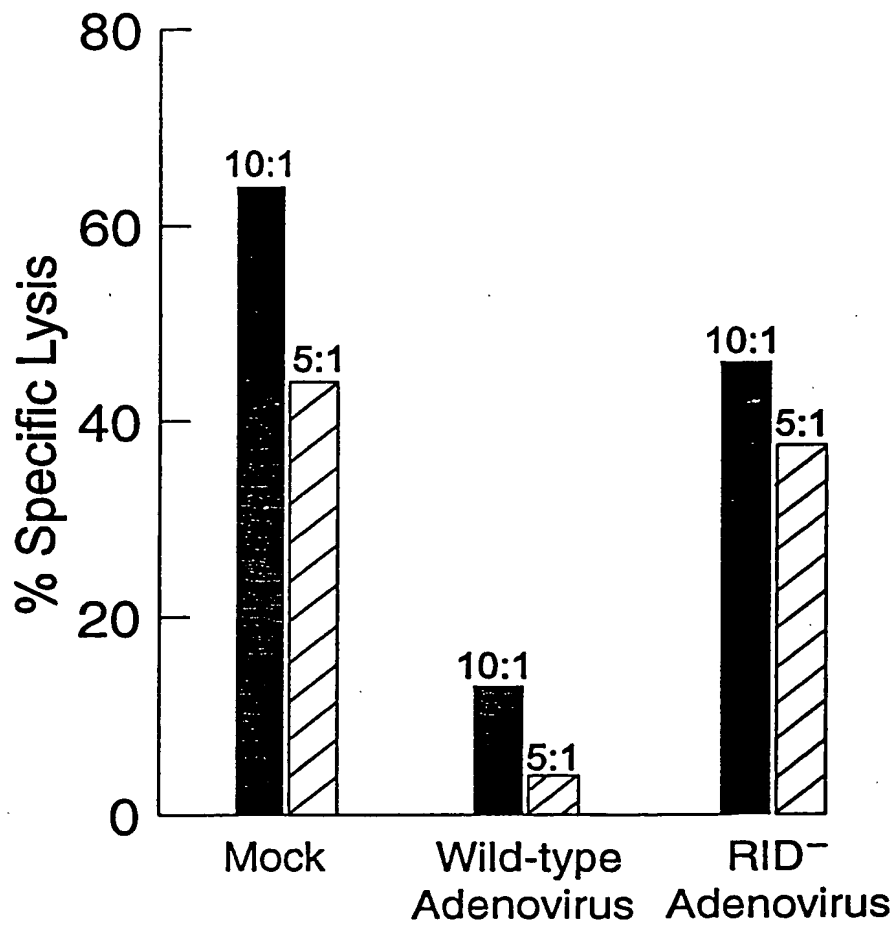


Figure 17

24 / 85

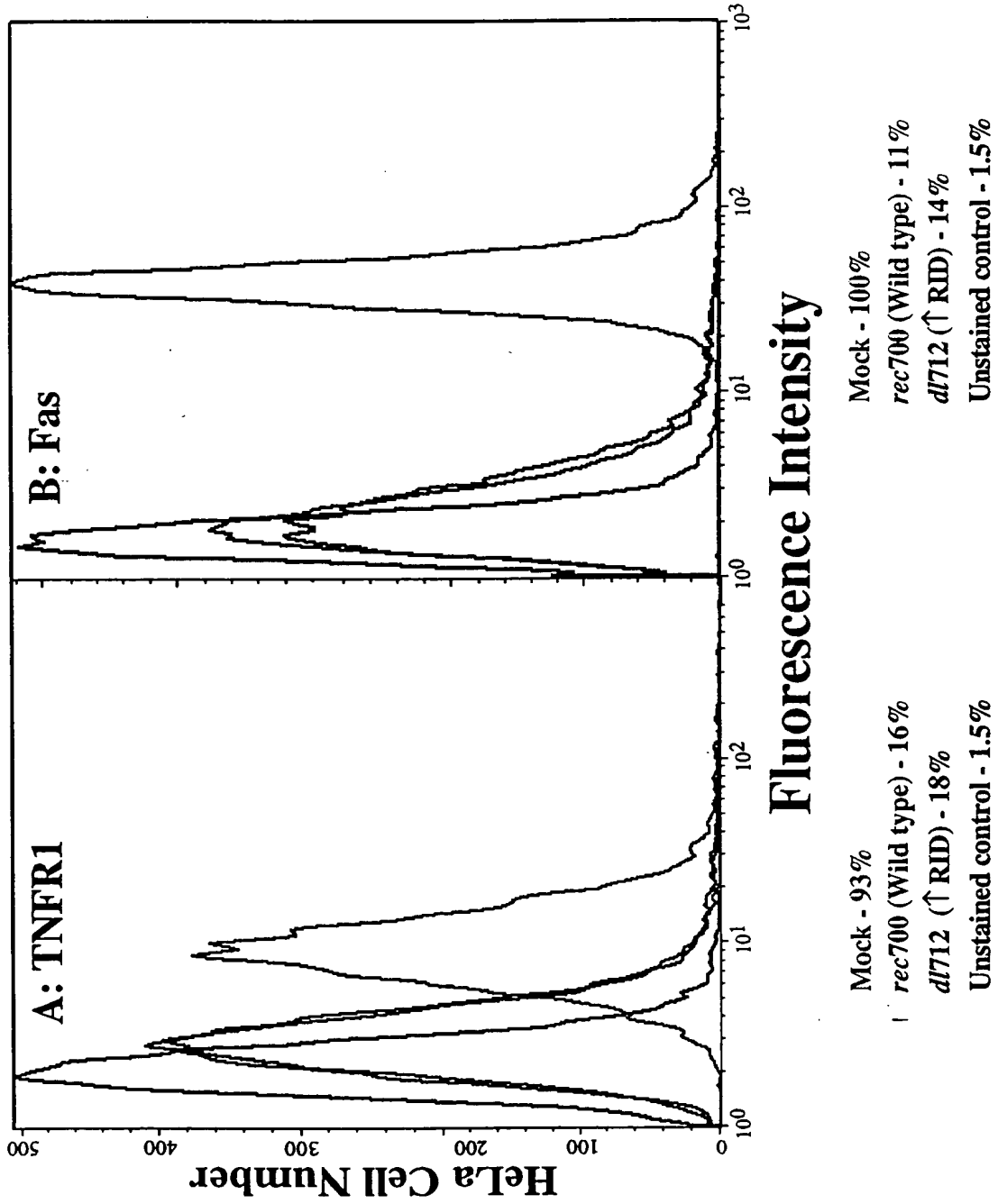


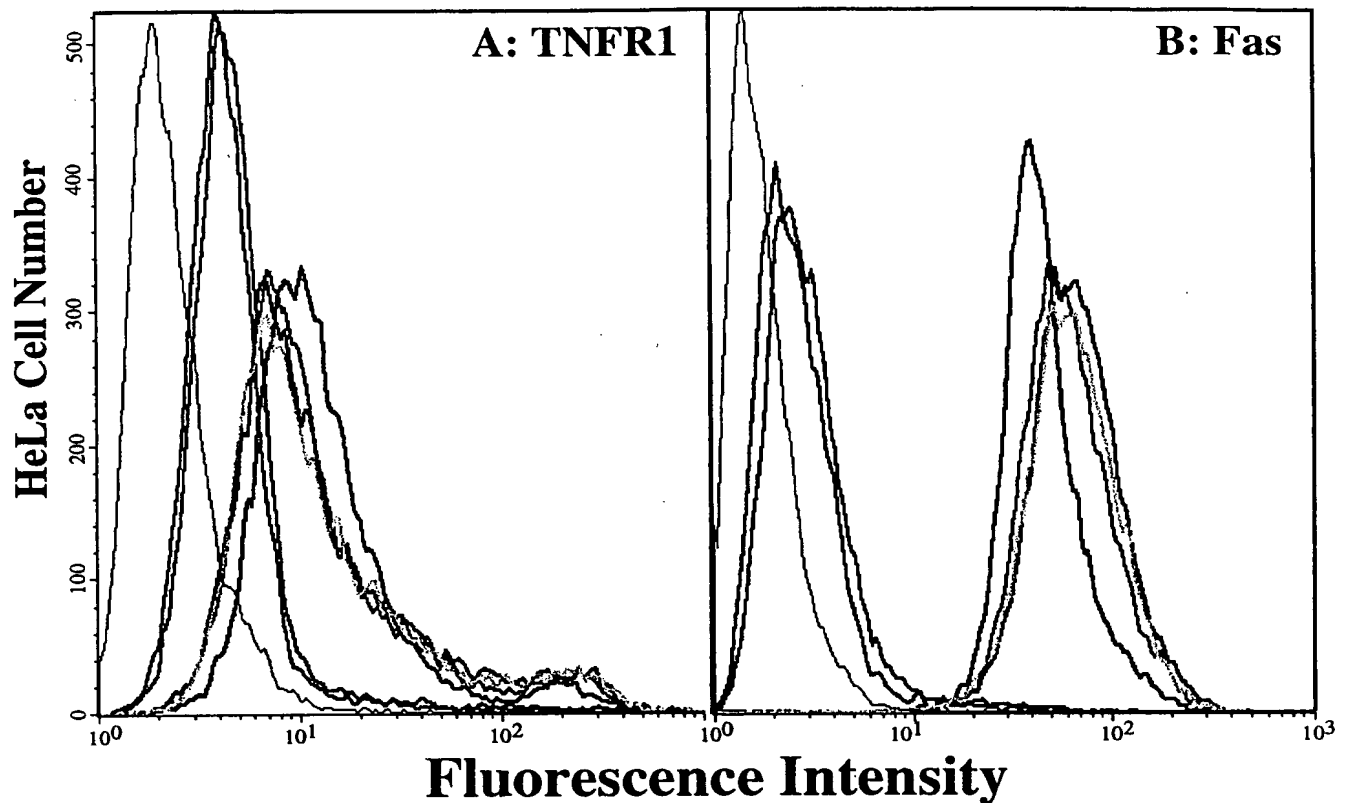
Figure 18A

Figure 18B

25/85

Figure 19A

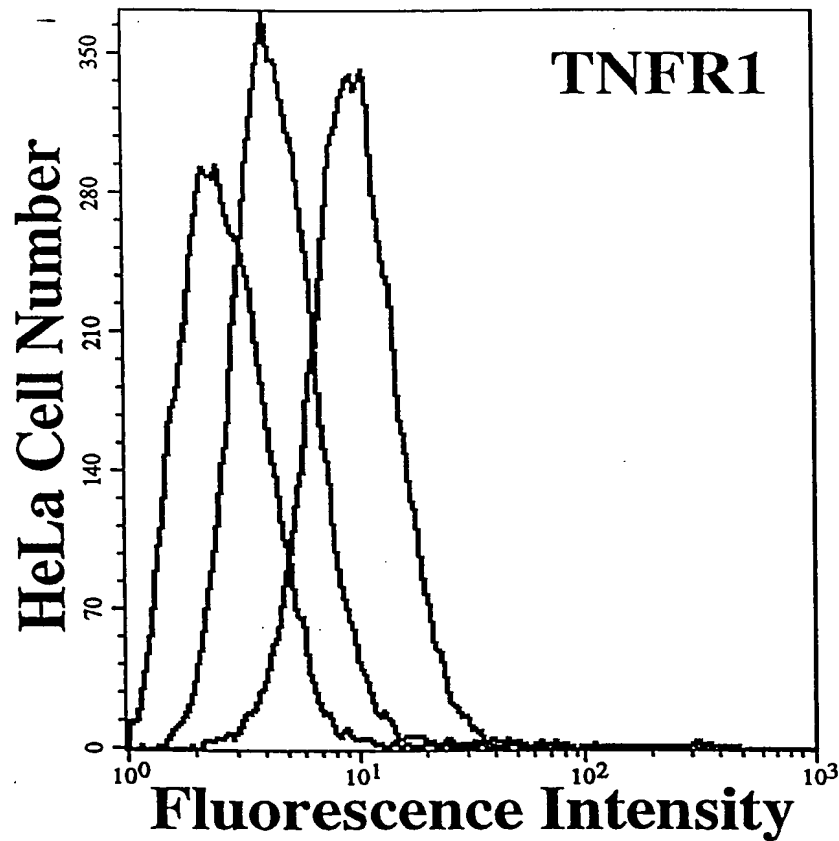
Figure 19B



Mock - 92%
***rec700* (Wild type) - 29%**
***dl753* (RID α -) - 85%**
***dl764* (RID β -) - 84%**
***dl712* (\uparrow RID) - 24%**
***dl309* (RID-) - 84%**
Unstained Control - 2%

Mock - 100%
***rec700* (Wild type) - 4%**
***dl753* (RID α -) - 100%**
***dl764* (RID β -) - 100%**
***dl712* (\uparrow RID) - 2%**
***dl309* (RID-) - 100%**
Unstained Control - 1%

26 / 85



Mock - 93%

231-10 (E3⁺ vector) 24 hr. p.i. - 35%

231-10 (E3⁺ vector) 48hr. p.i. - 11%

Figure 20

27 / 85

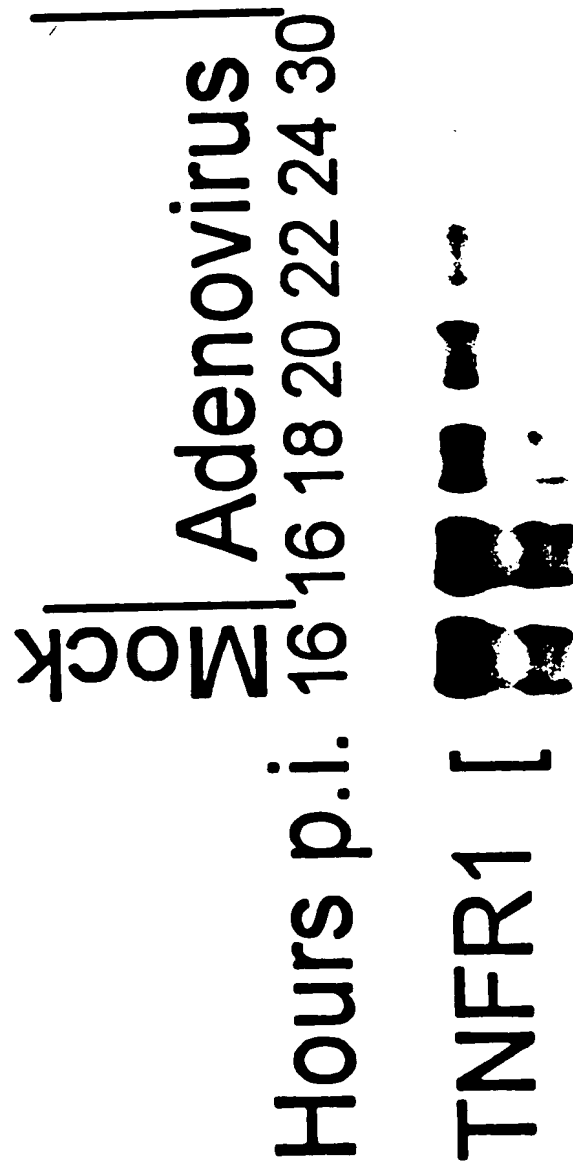


Figure 21

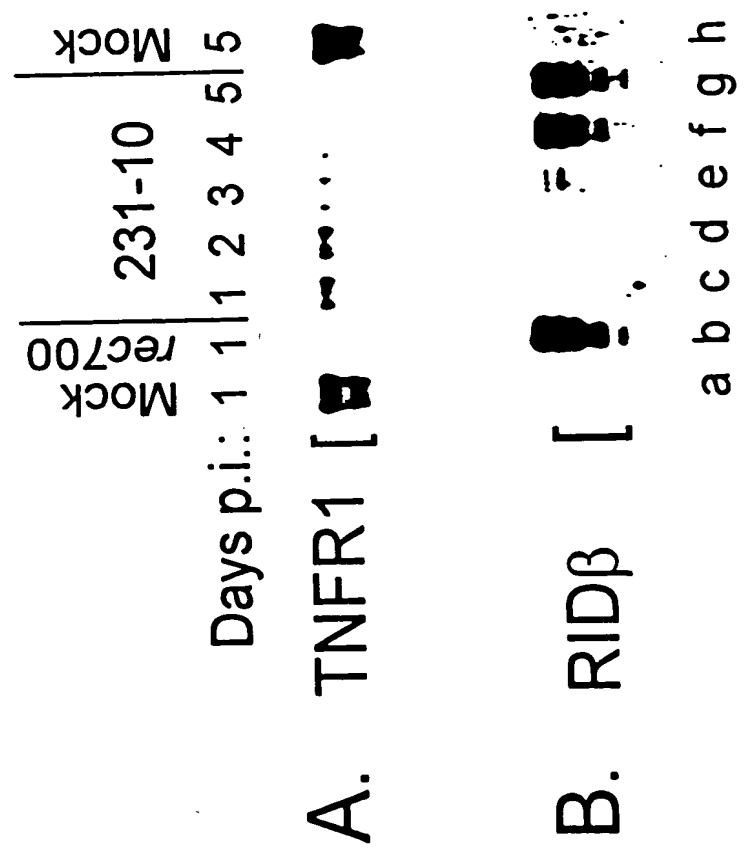


Figure 22

29 / 85

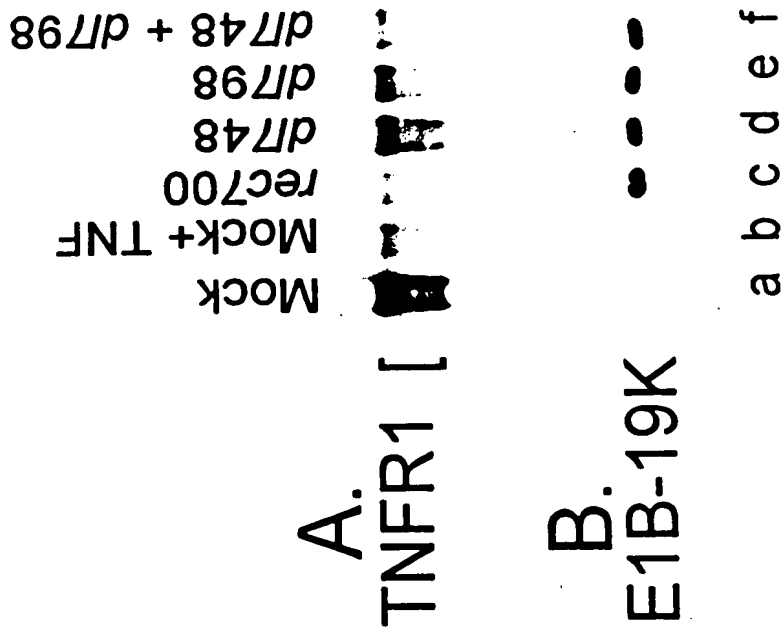


Figure 23

Title: Inhibiting Apoptosis Adenovirus RID Protein
Inventor(s): William S.M. Wold
Appln. No. 09/111,911
Docket # 66153-5587

30 / 85

30/85



Figure 24

Title: Inhibiting Apoptosis Adenovirus RID Protein
Inventor(s): William S.M. Wold
Appln. No. 09/111,911
Docket # 66153-5587
31 / 85

31/85



Figure 25

32/85



Figure 26

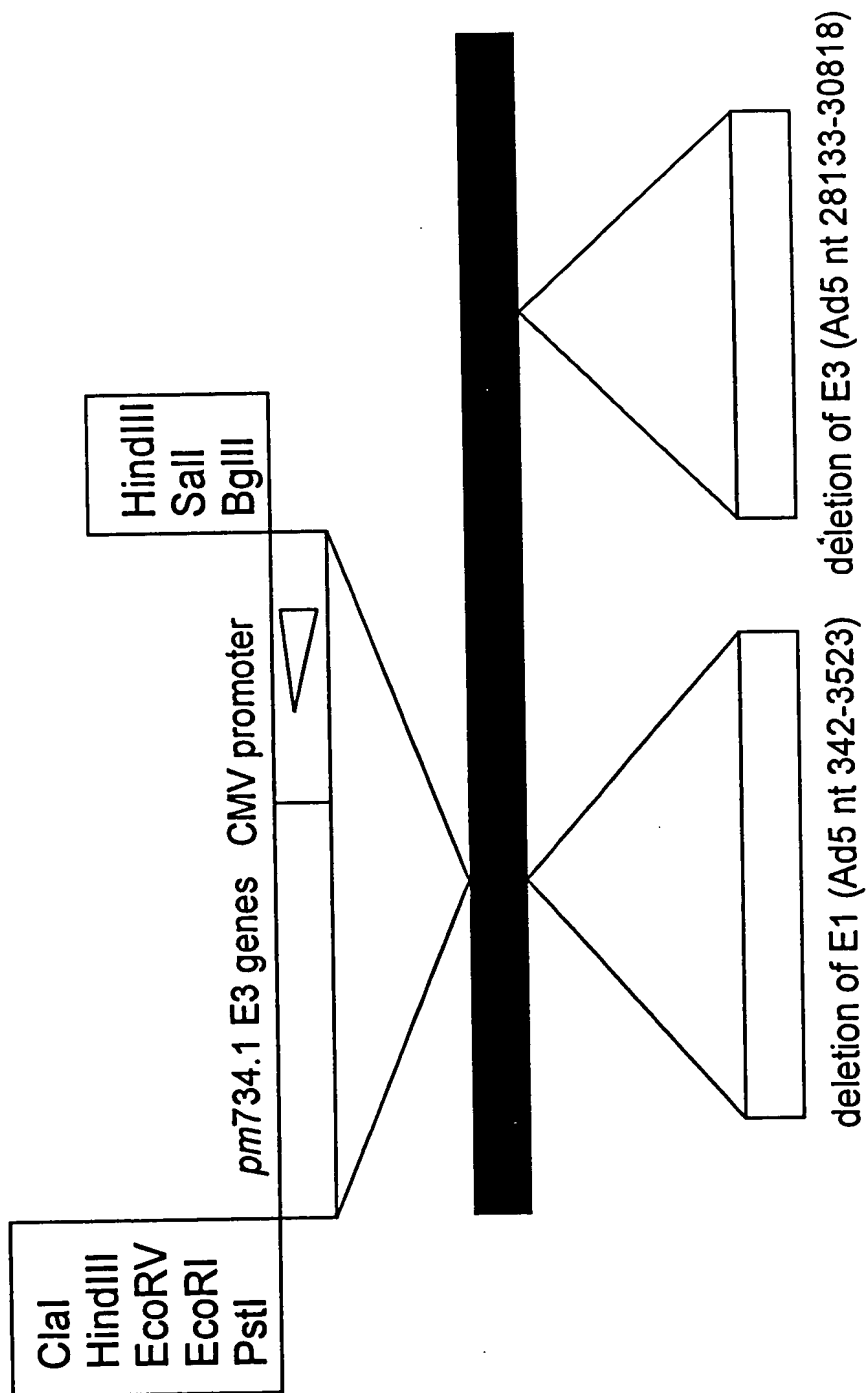


Figure 27

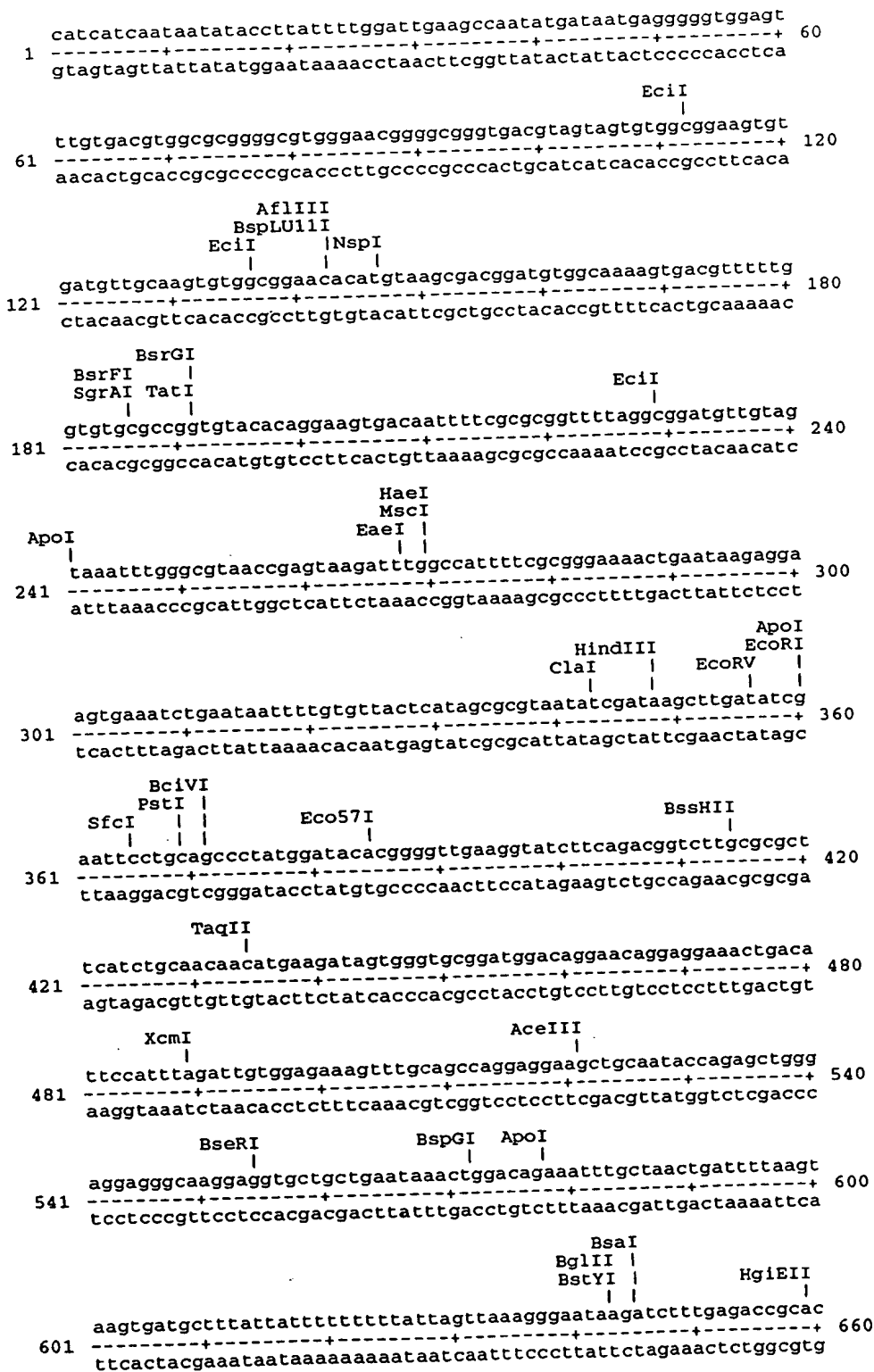


Figure 28A

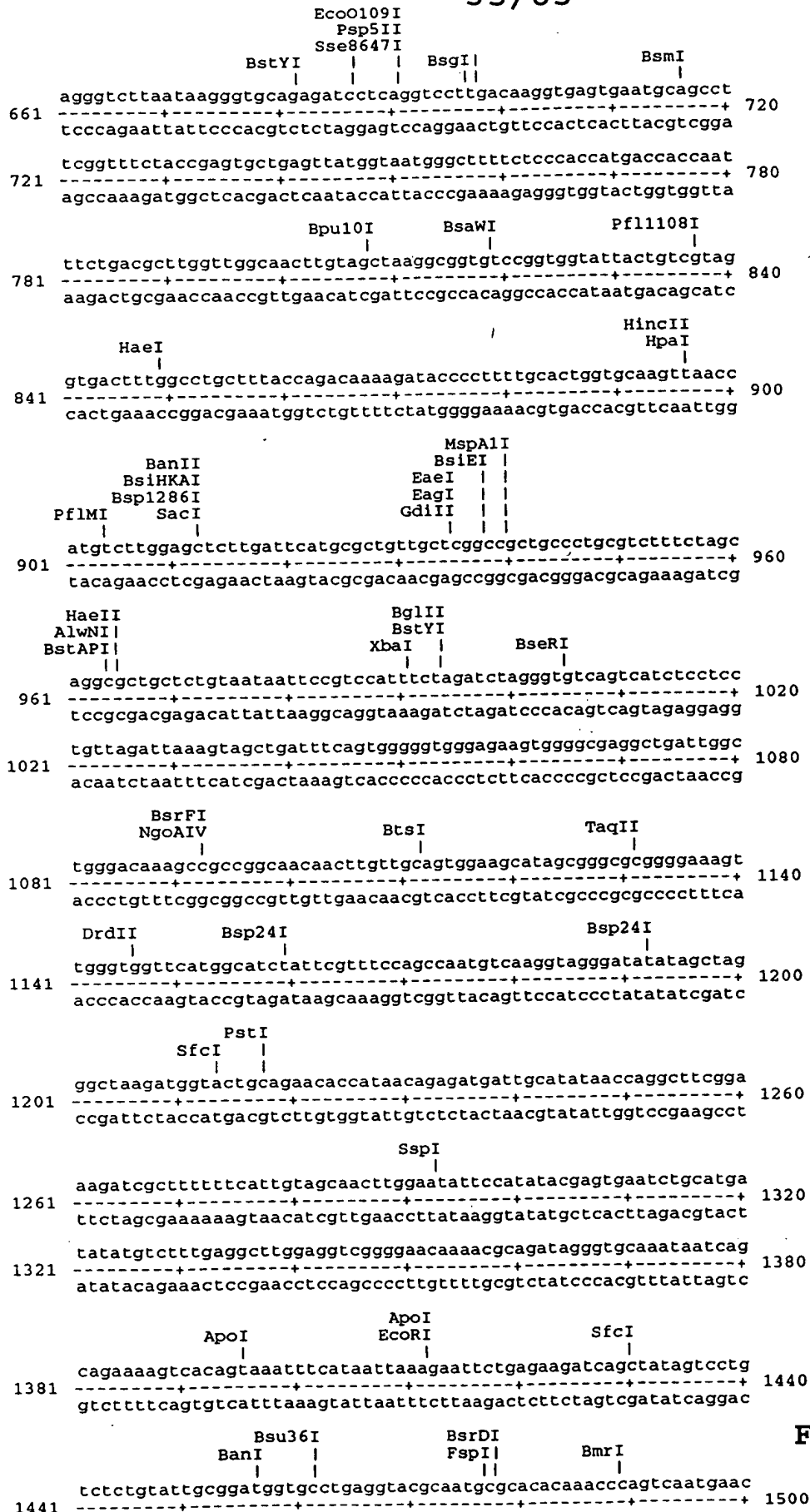


Figure 28B

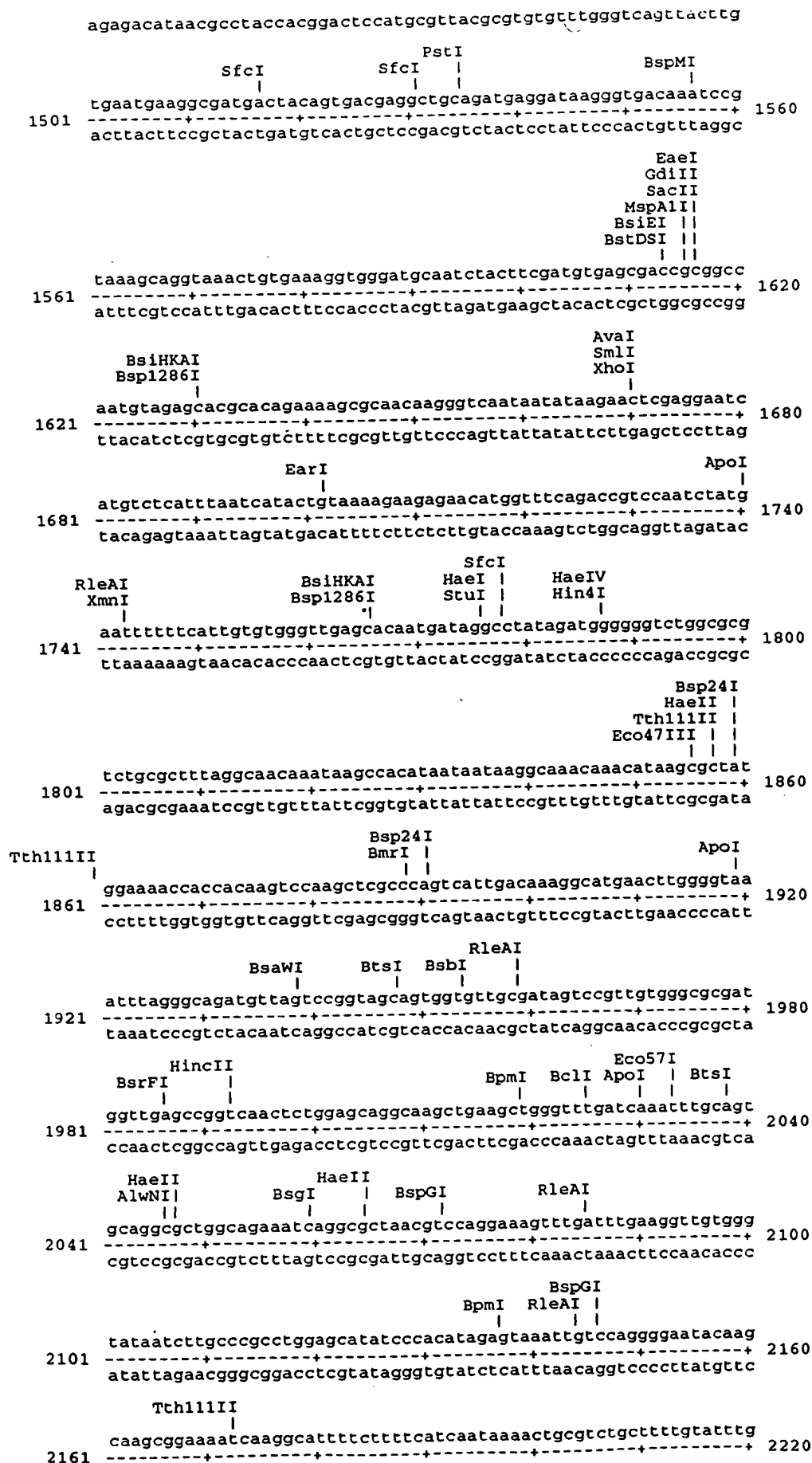


Figure 28C

gttcgccttttagttccgtaaaagaaaagtagttattttgacgcagacgaaaacataaac

37 / 85

Figure 28D



Figure 28E

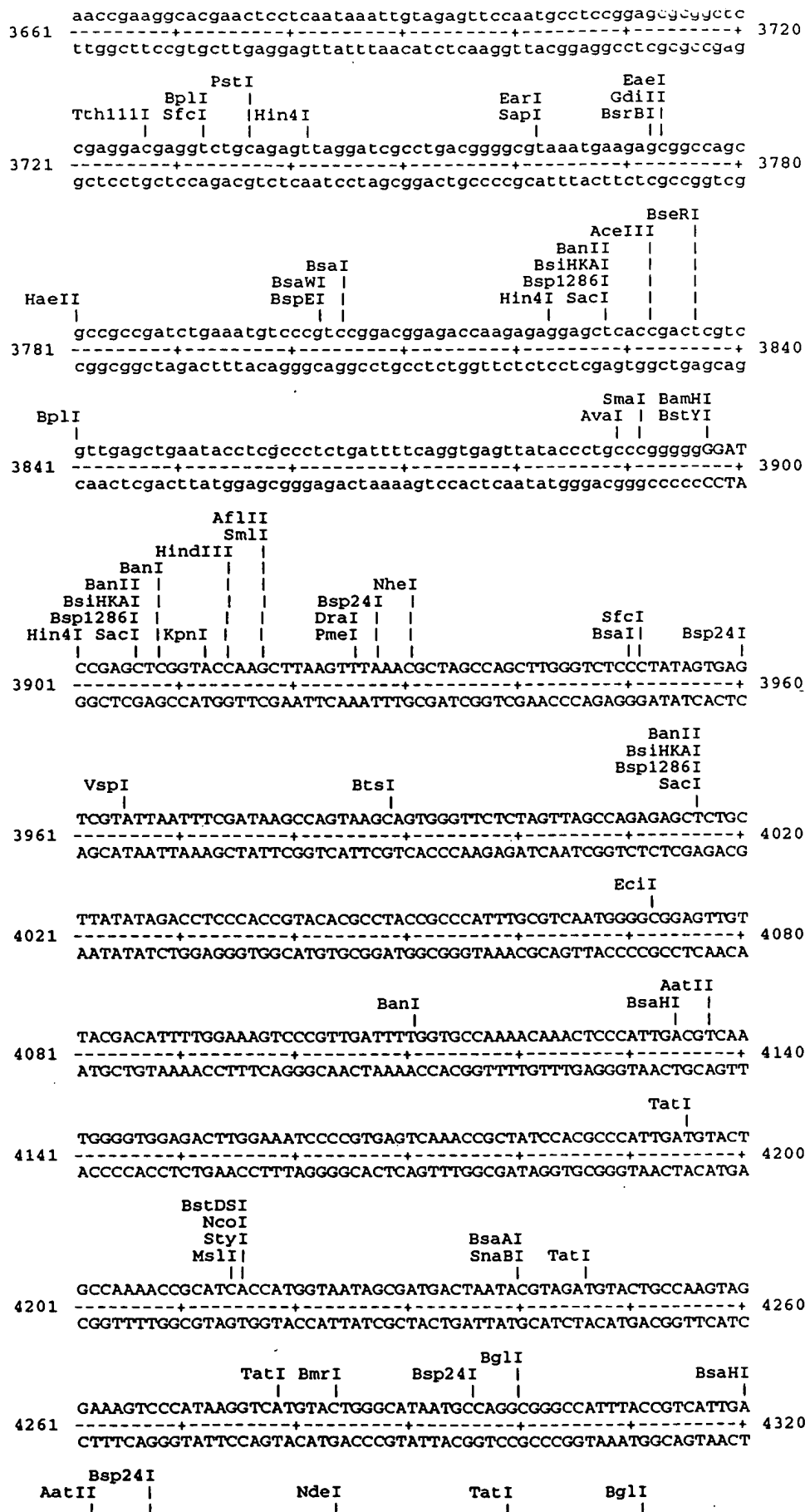


Figure 28F



Figure 28G

Title: Inhibiting Apoptosis Adenovirus RID Protein
Inventor(s): William S.M. Wold
Appln. No. 09/111,911
Docket # 66153-5587

41 / 85

41/85

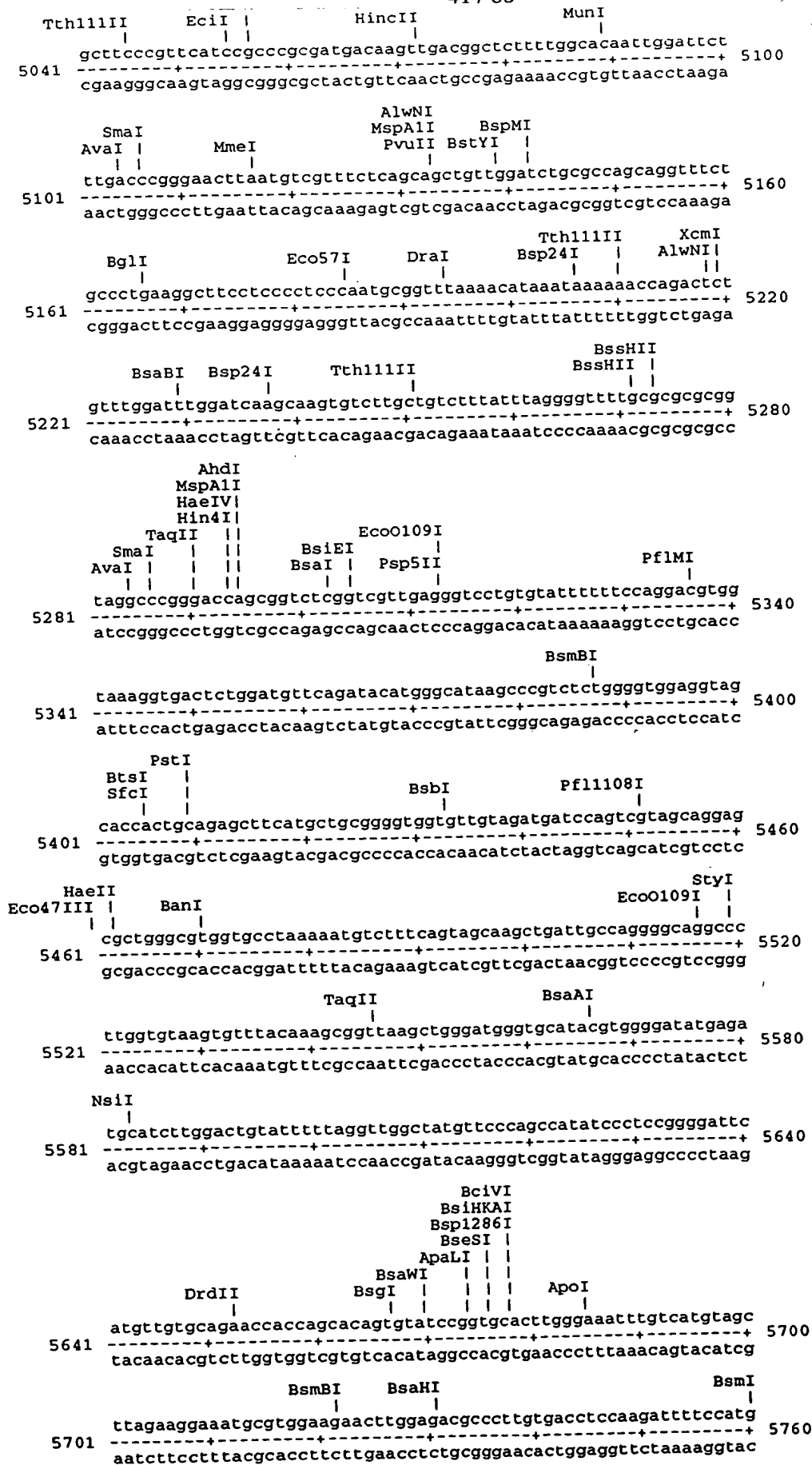


Figure 28H

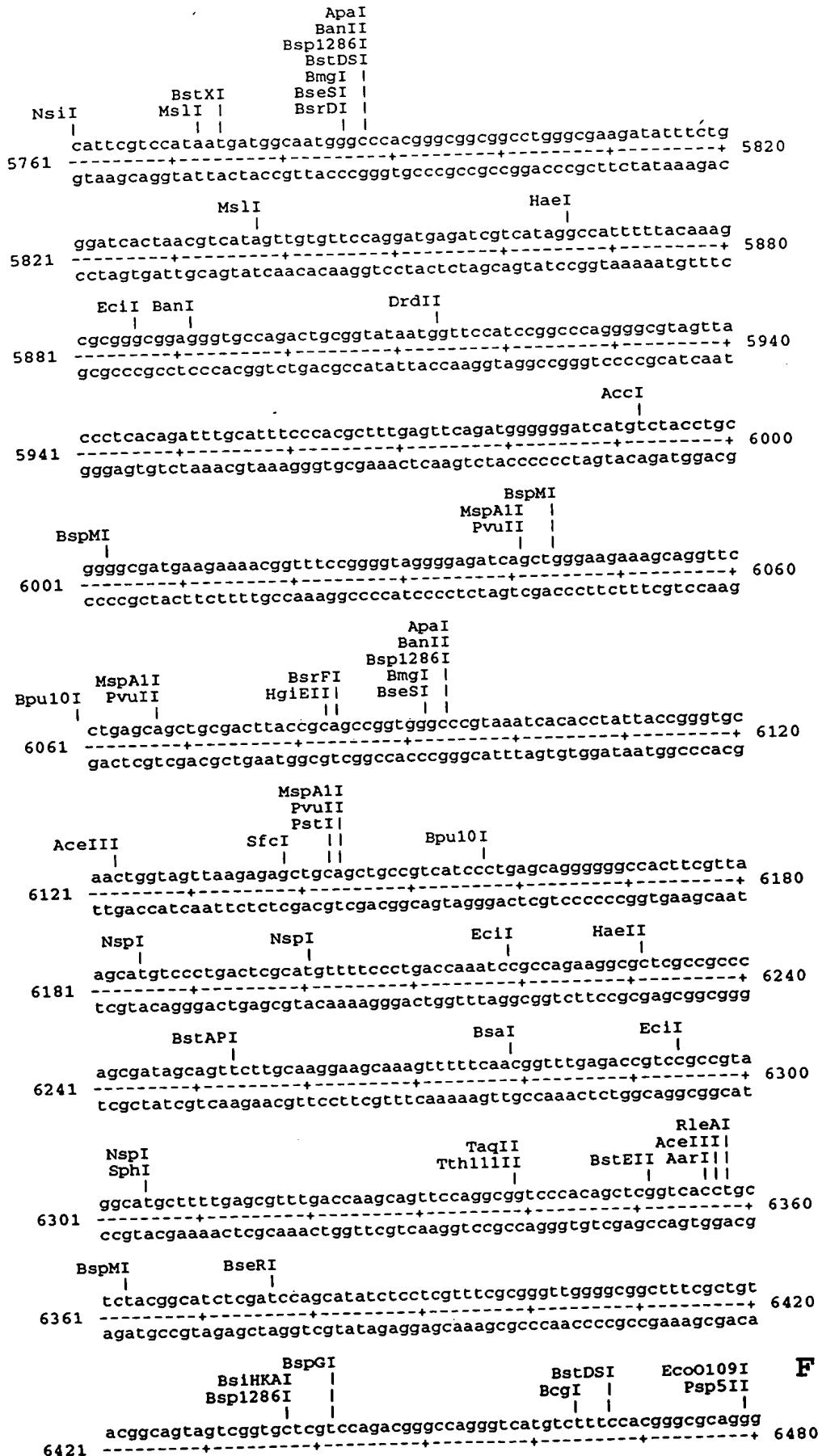


Figure 28I

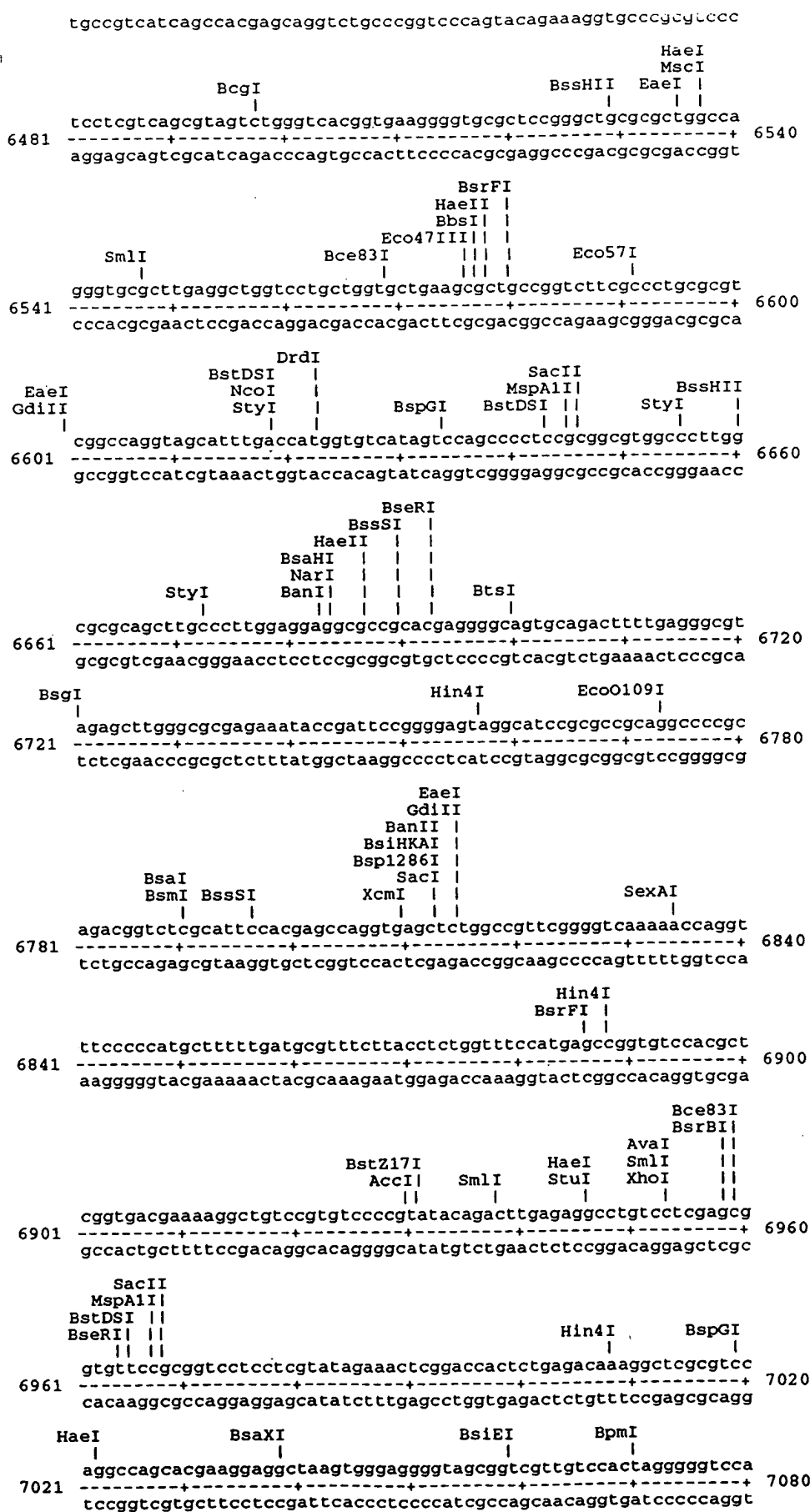


Figure 28J

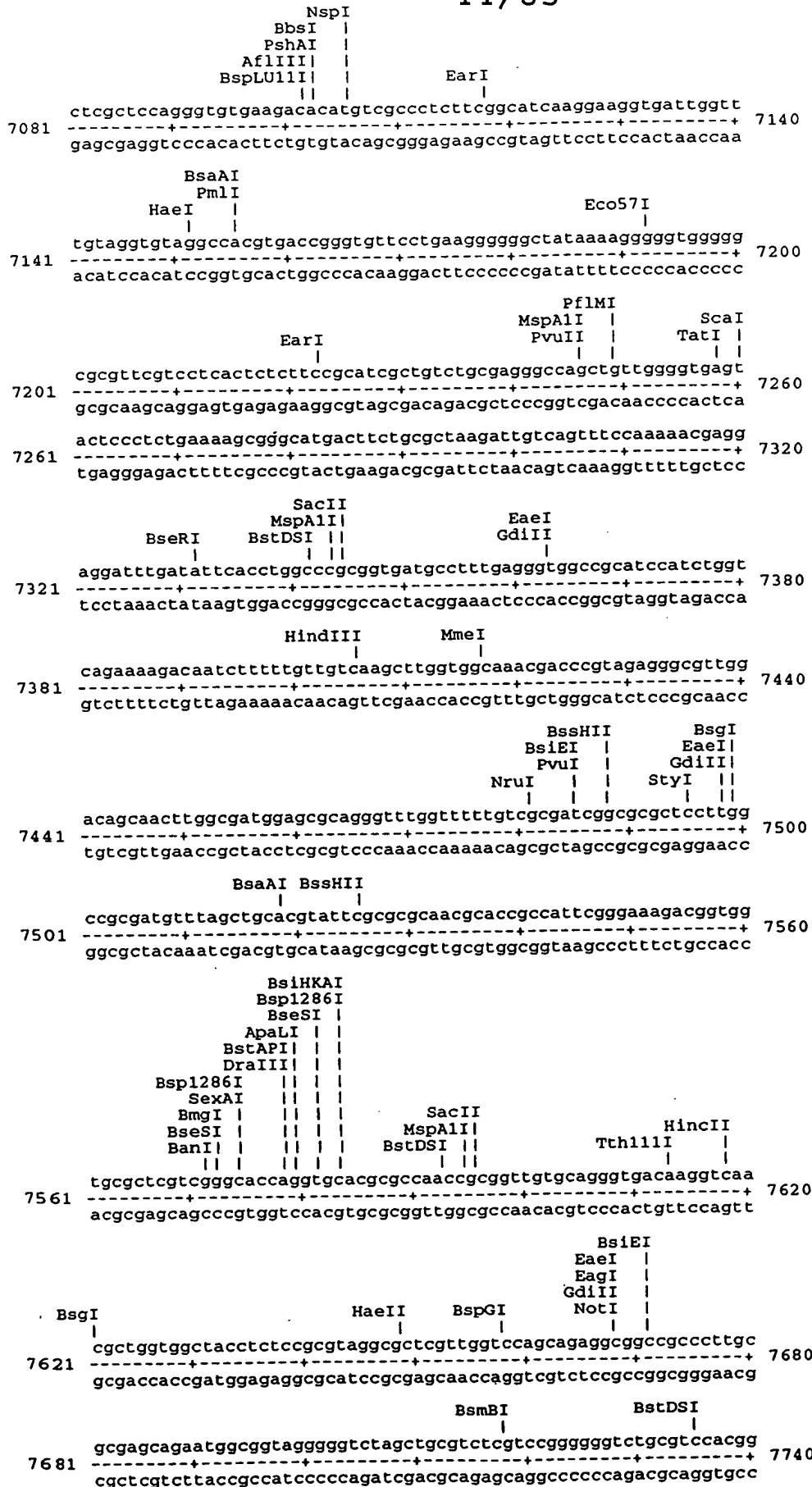


Figure 28K

45/85

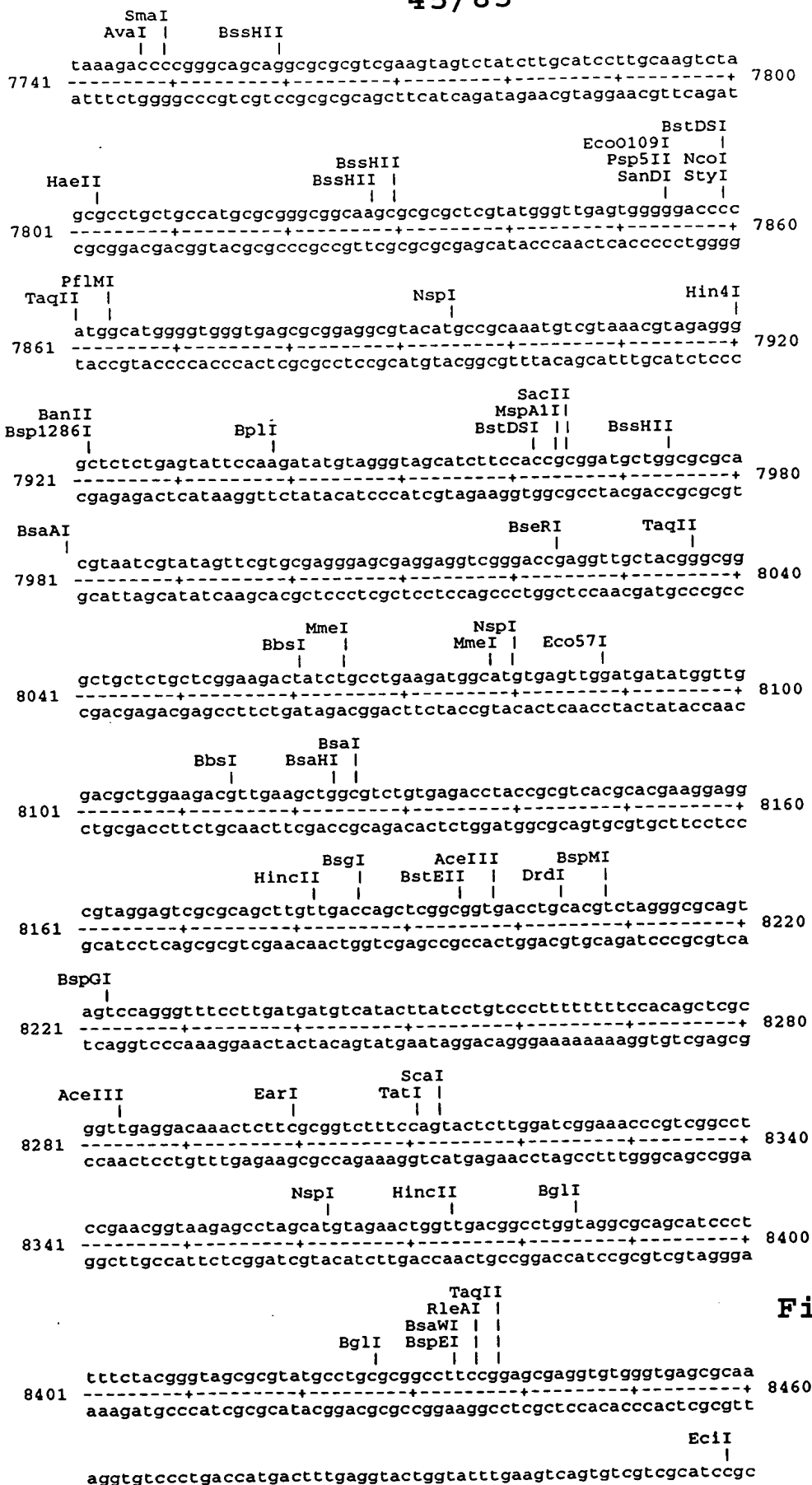
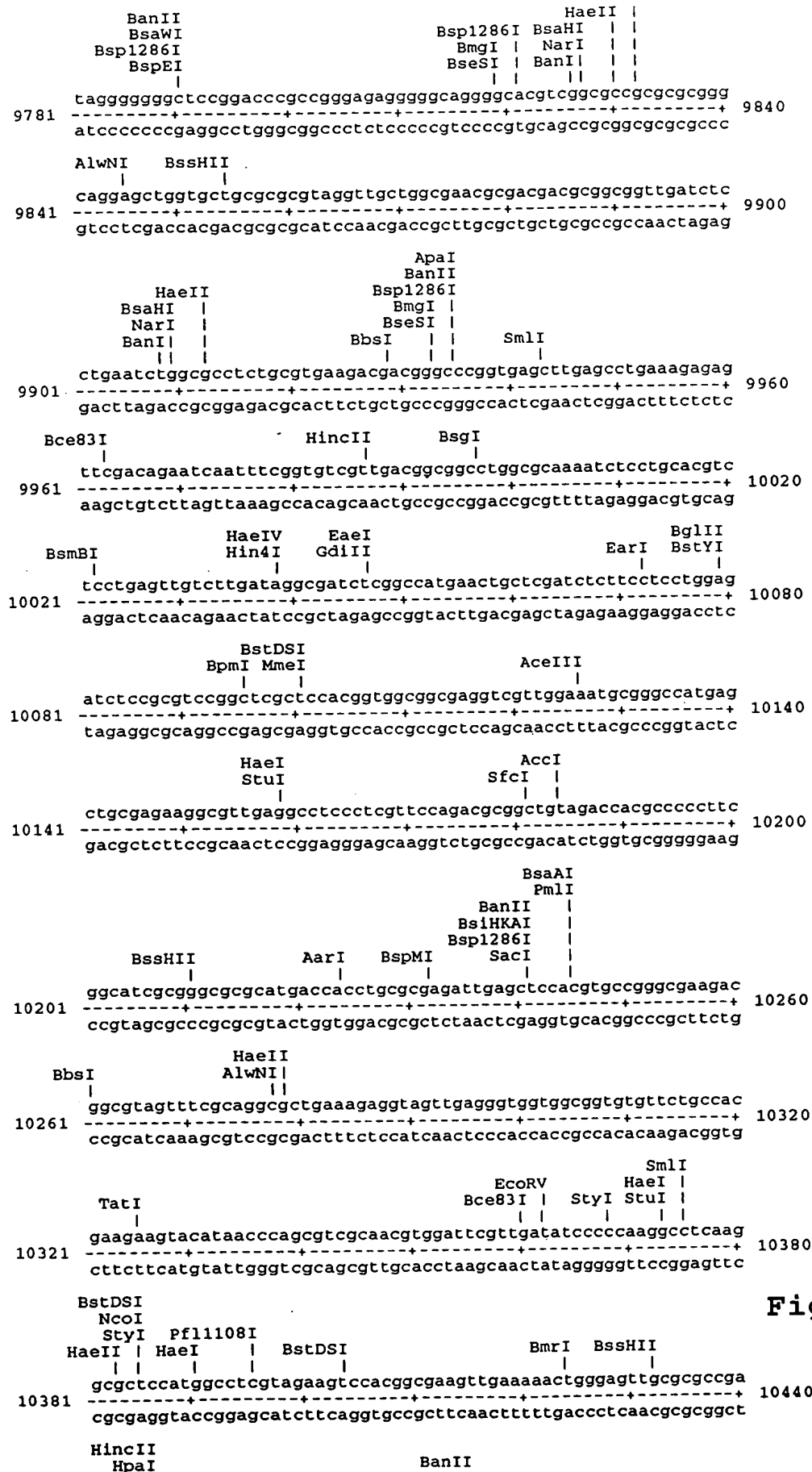


Figure 28L

Figure 28M

Figure 28N

AceIII
BssHII



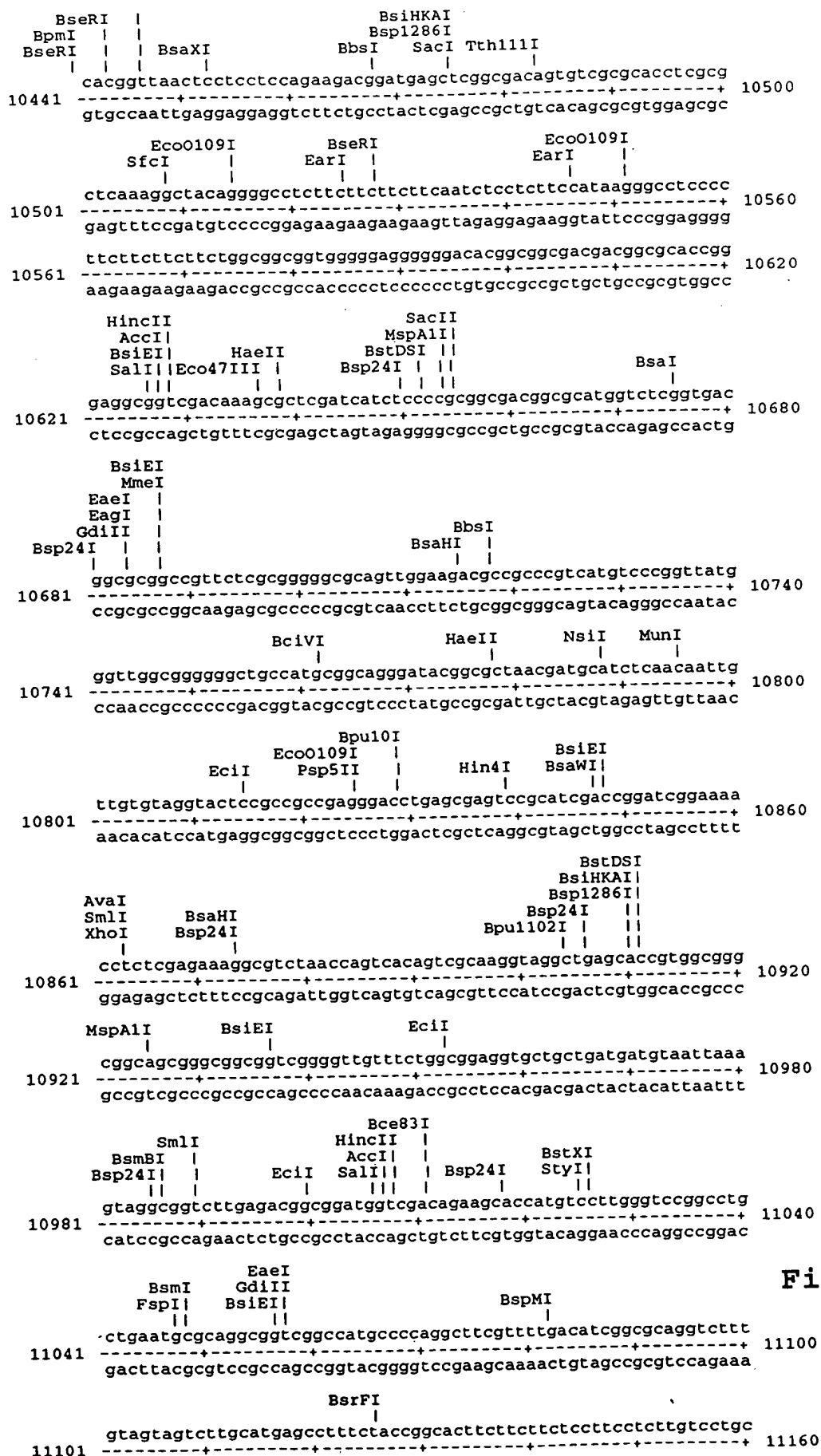


Figure 28P

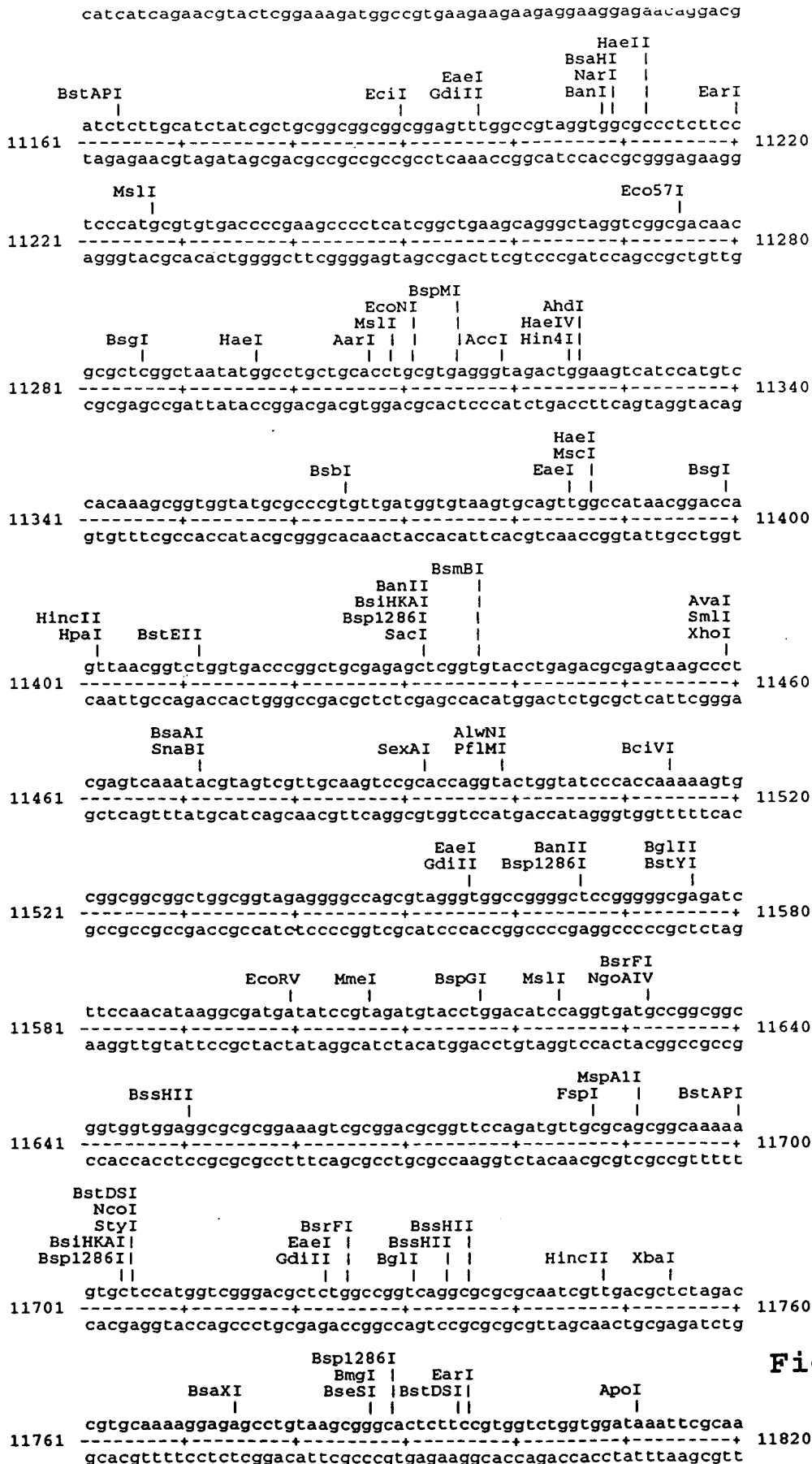


Figure 28Q

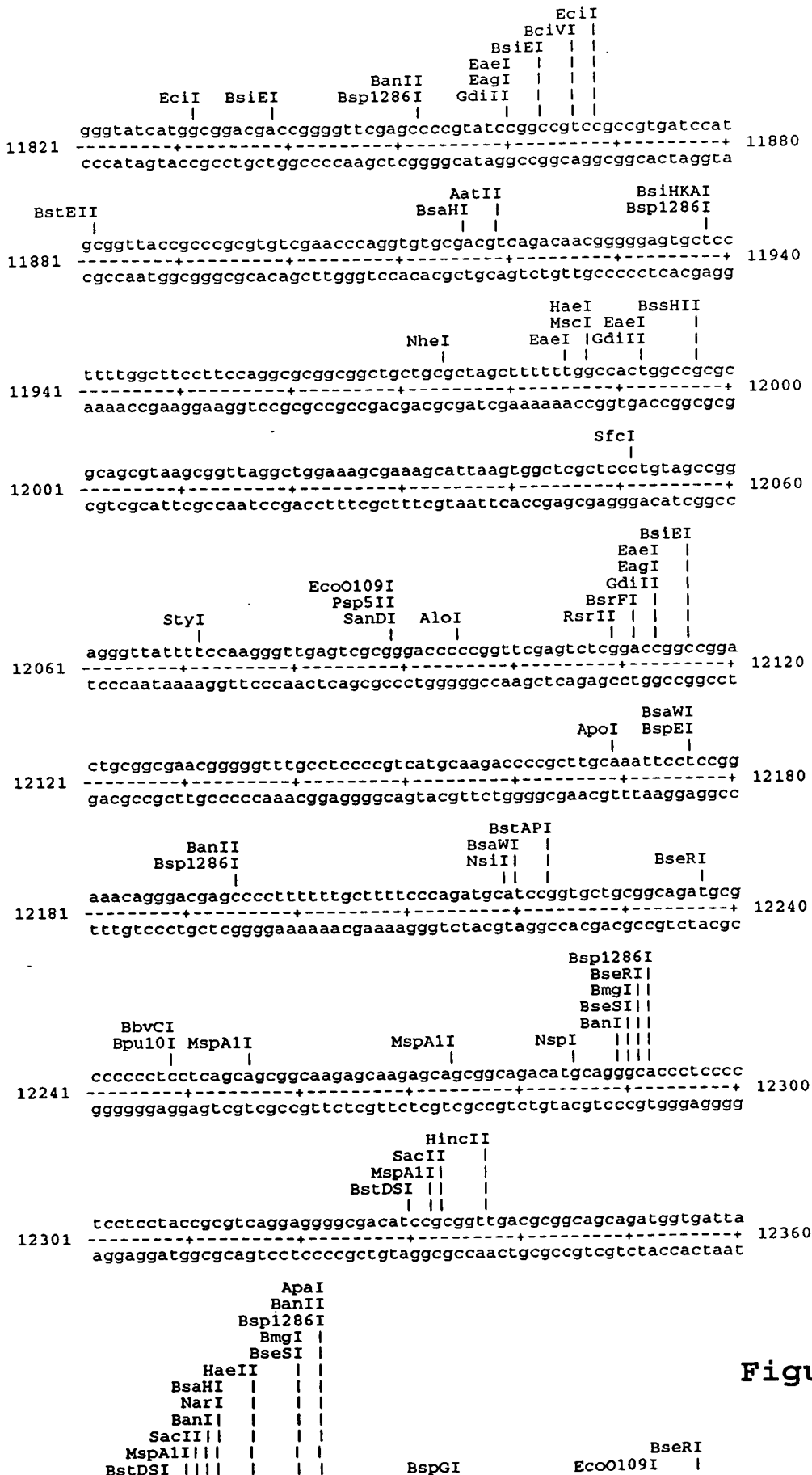


Figure 28R



Figure 28S

Title: Inhibiting Apoptosis Adenovirus RID Protein
 Inventor(s): William S.M. Wold
 Appln. No. 09/111,911
 Docket # 66153-5587

53 / 85

53/85

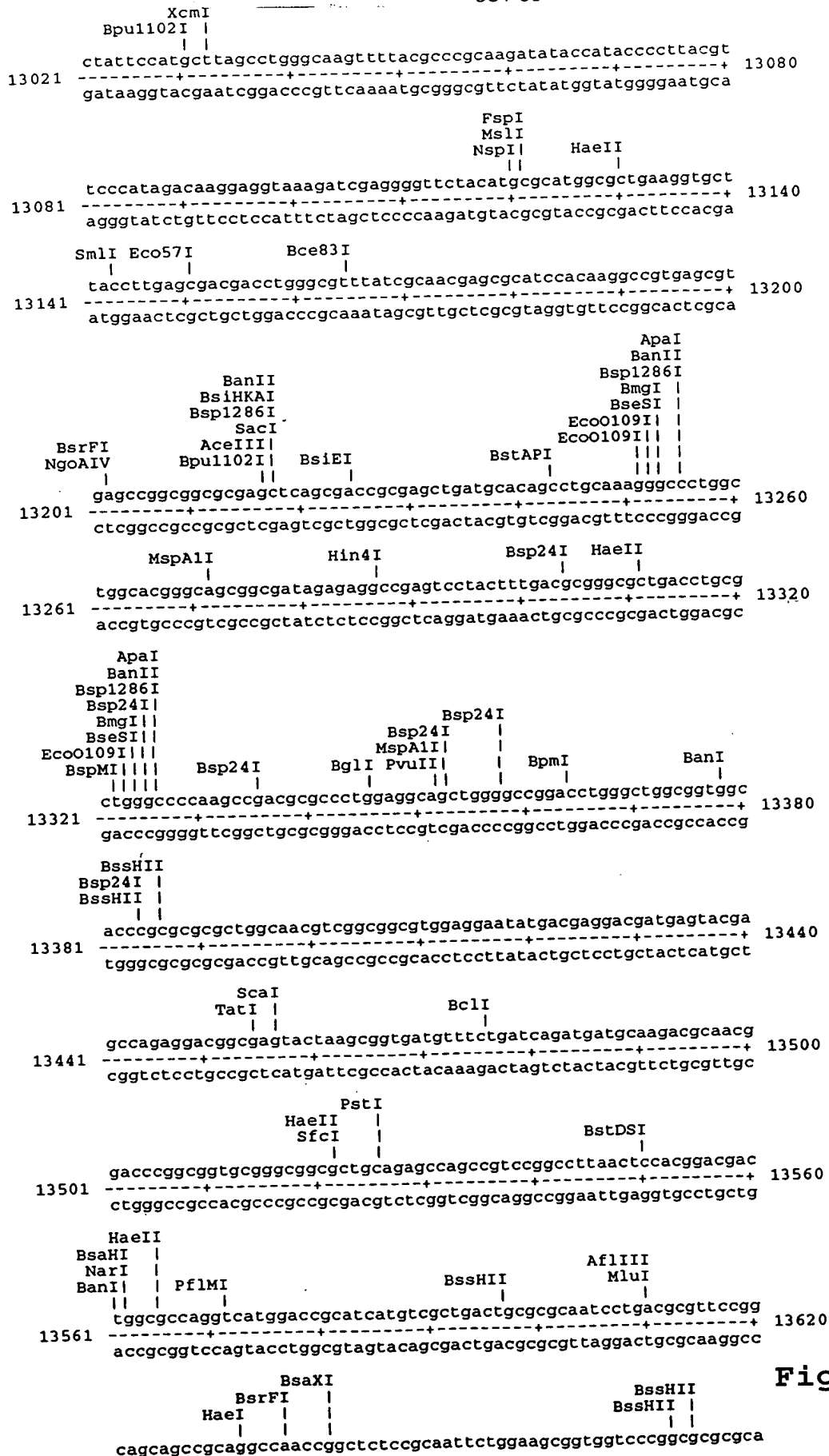


Figure 28T

Figure 28U

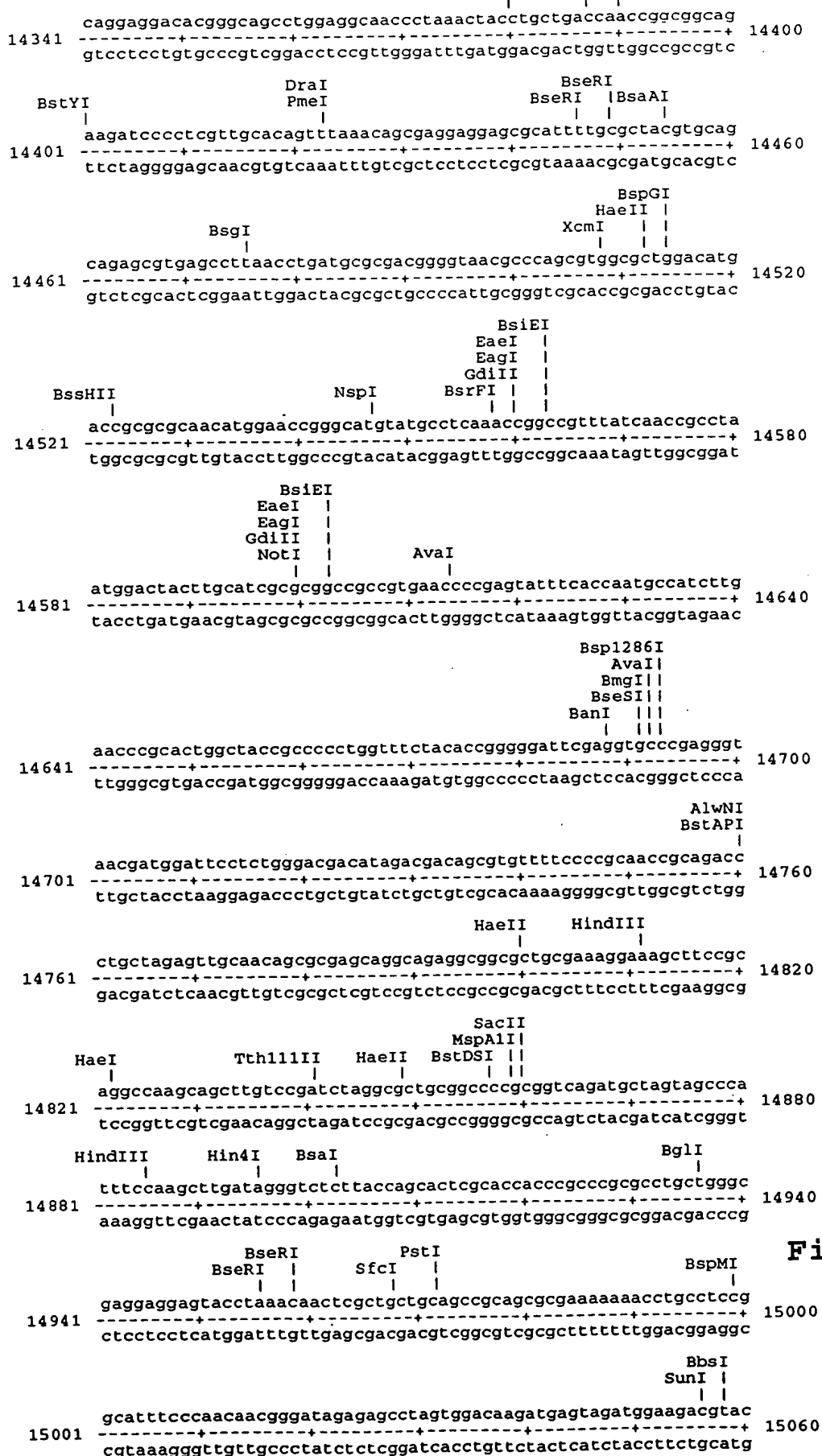


Figure 28V

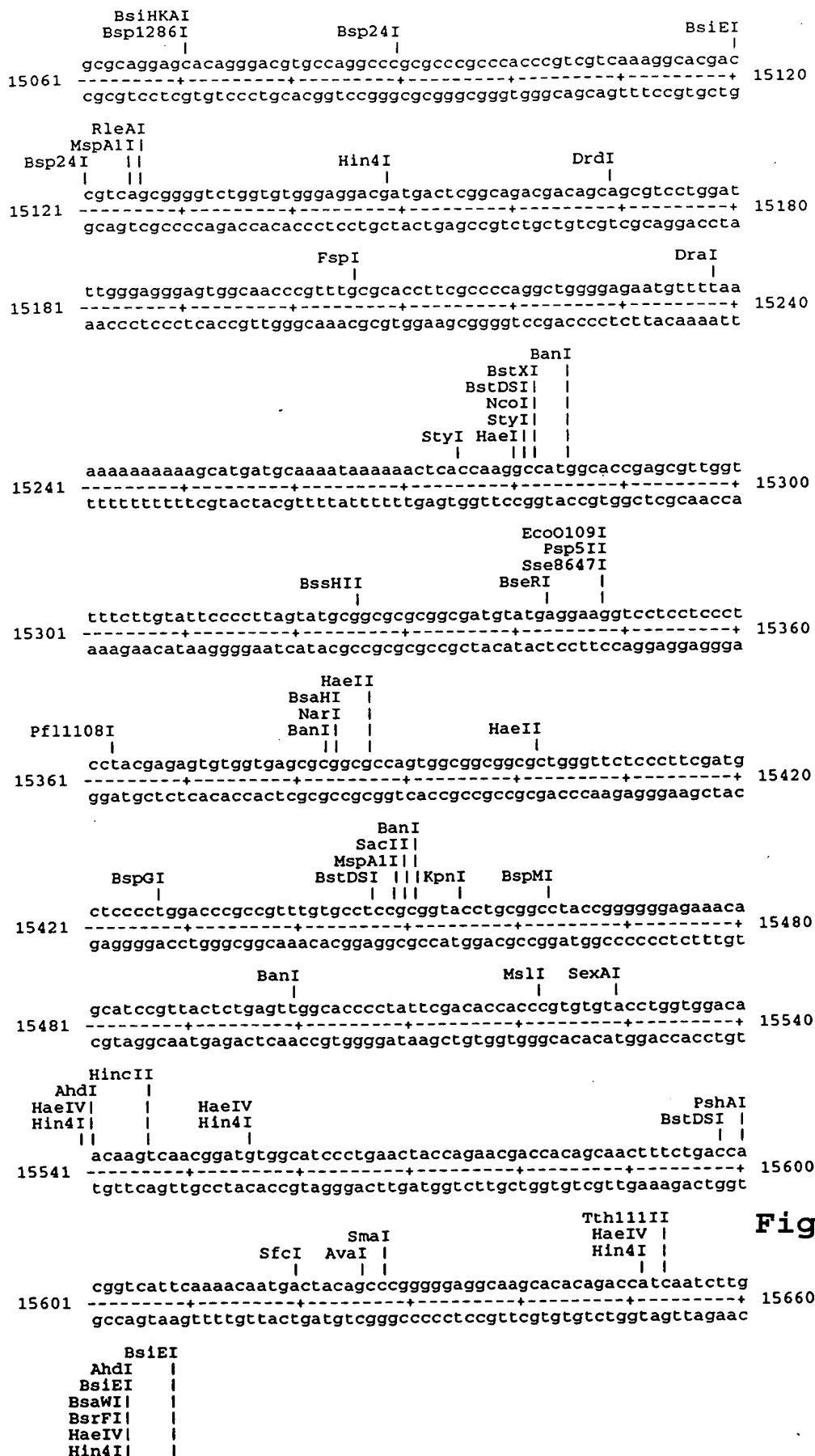


Figure 28W

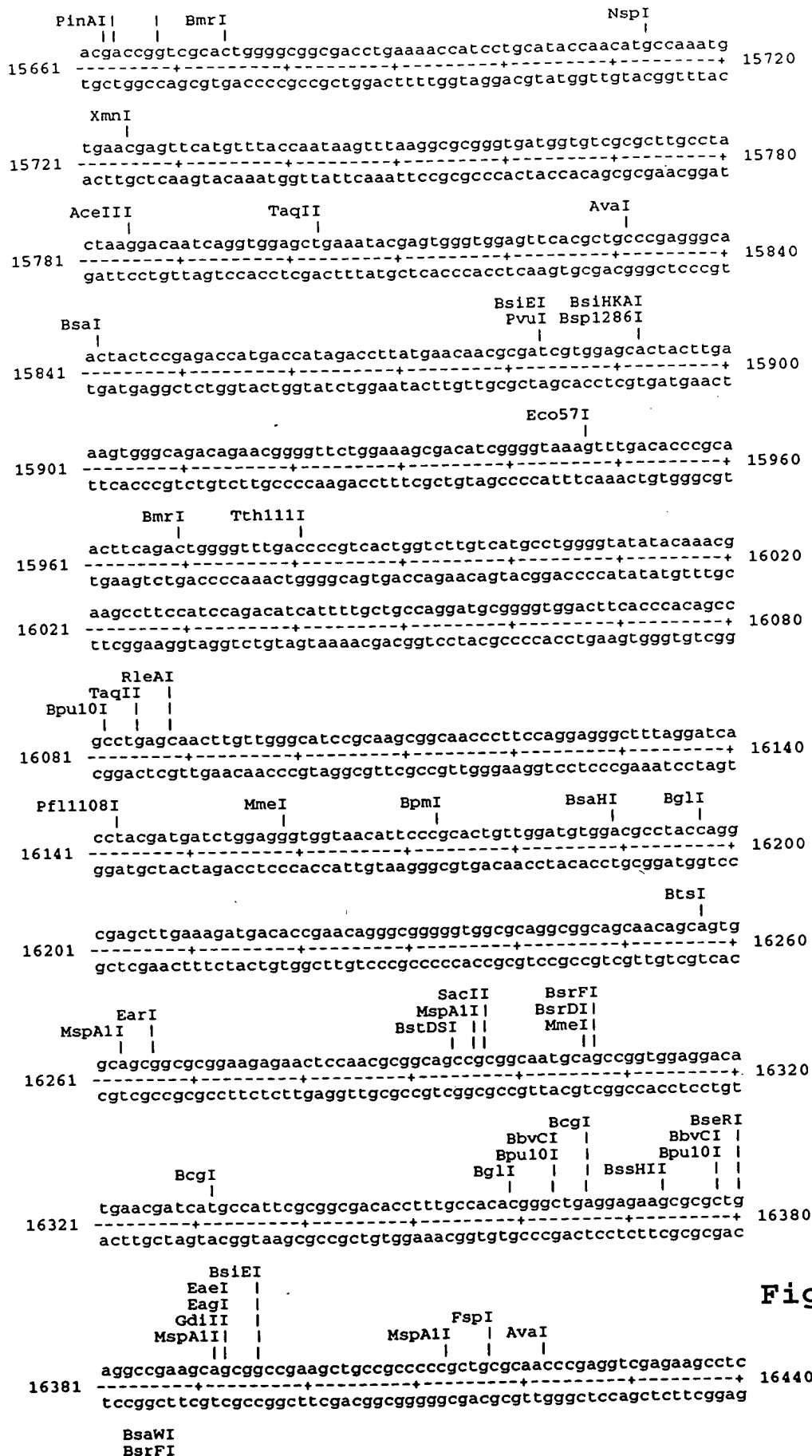


Figure 28X

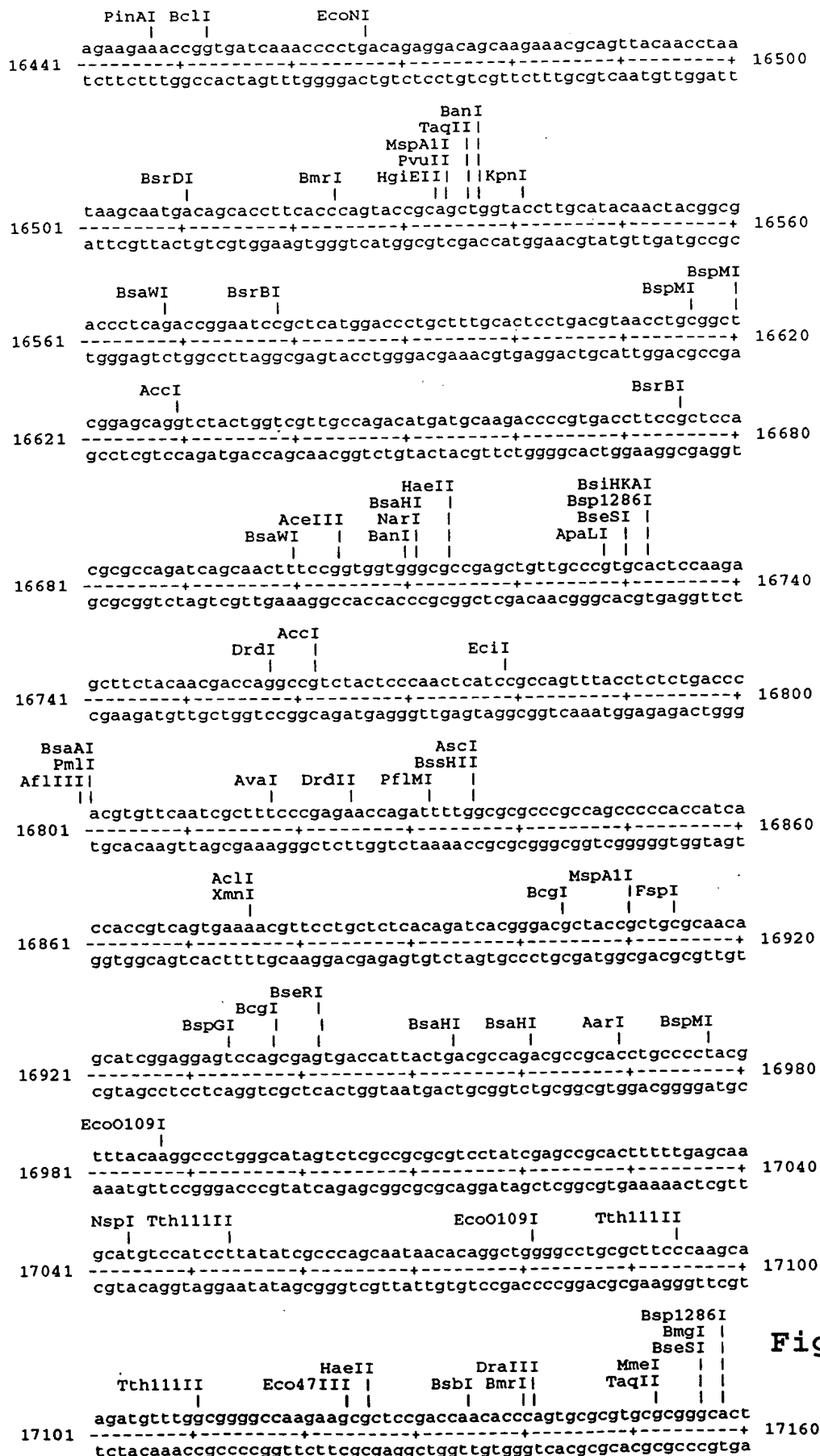


Figure 28Y

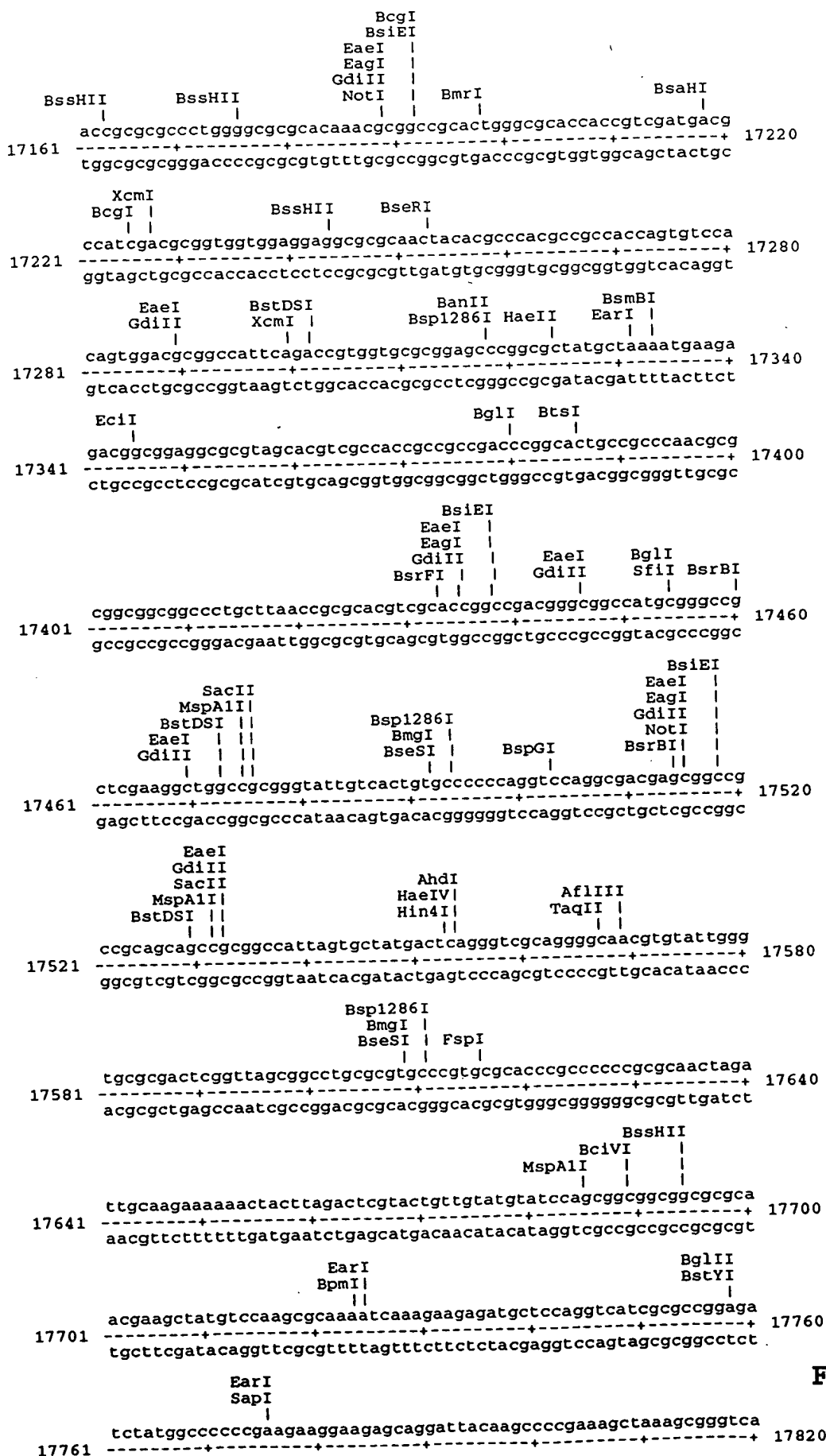


Figure 28Z

Title: Inhibiting Apoptosis Adenovirus RID Protein
Inventor(s): William S.M. Wold
Appln. No. 09/111,911
Docket # 66153-5587

60 / 85

60/85

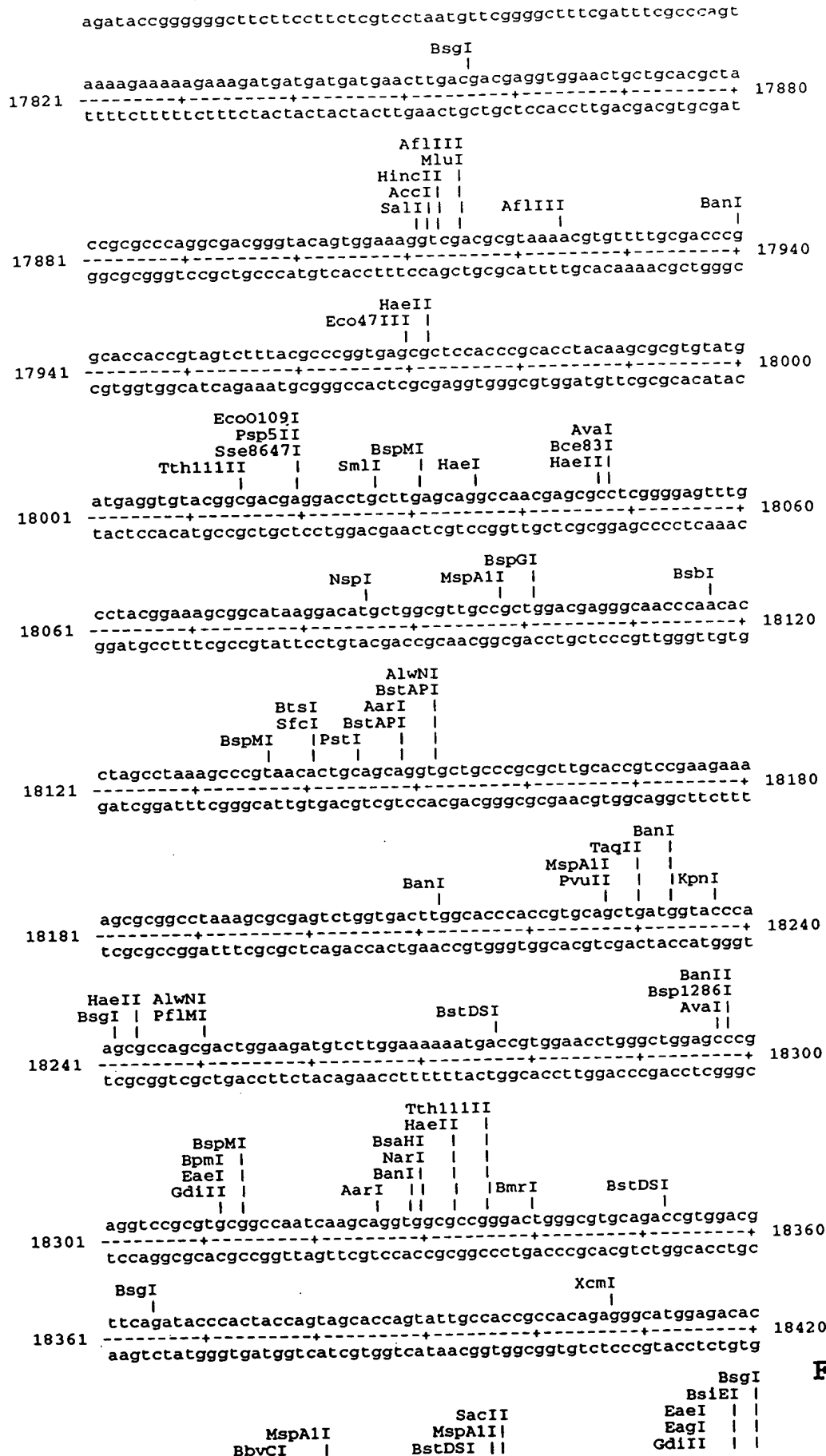


Figure 28AA

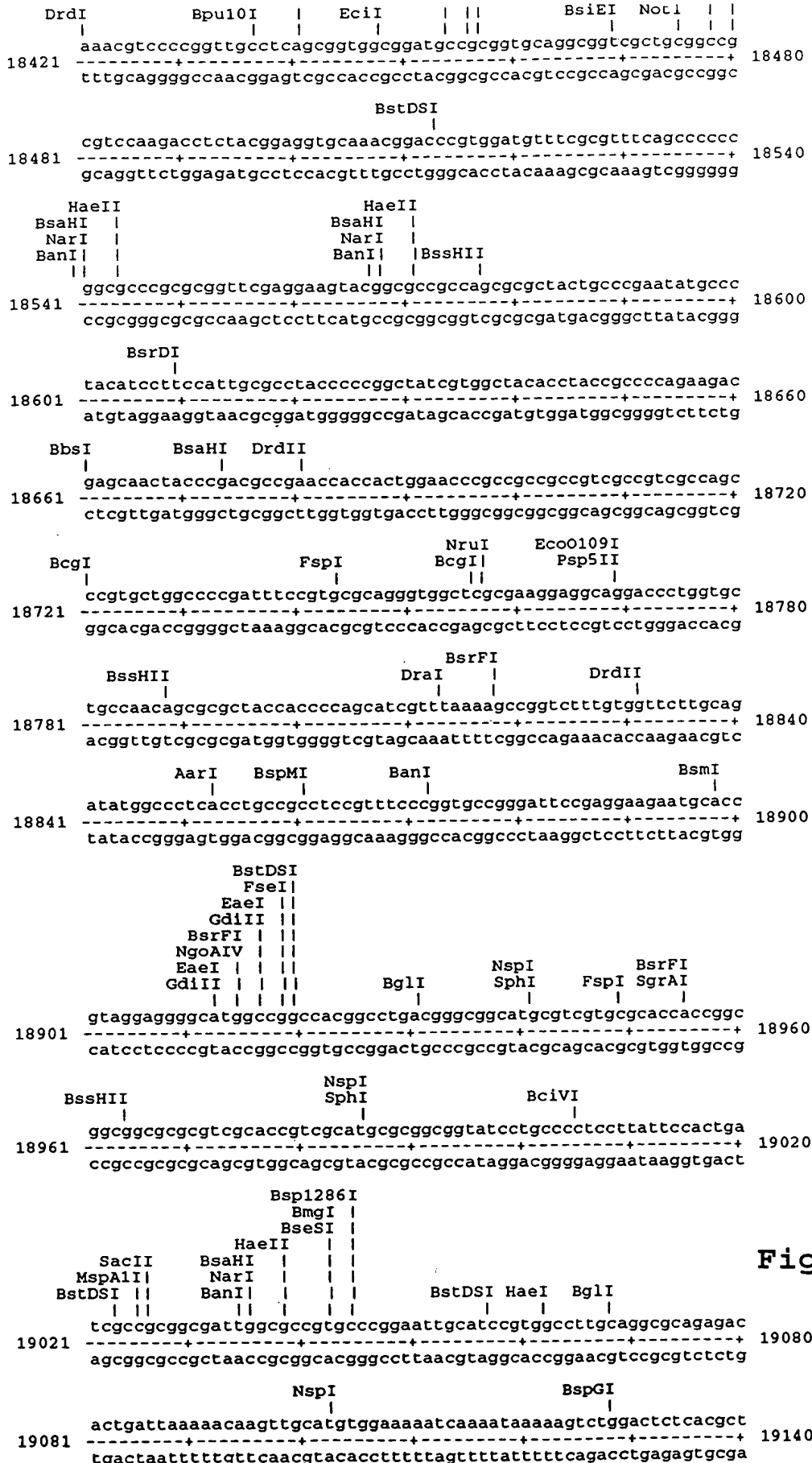


Figure 28BB

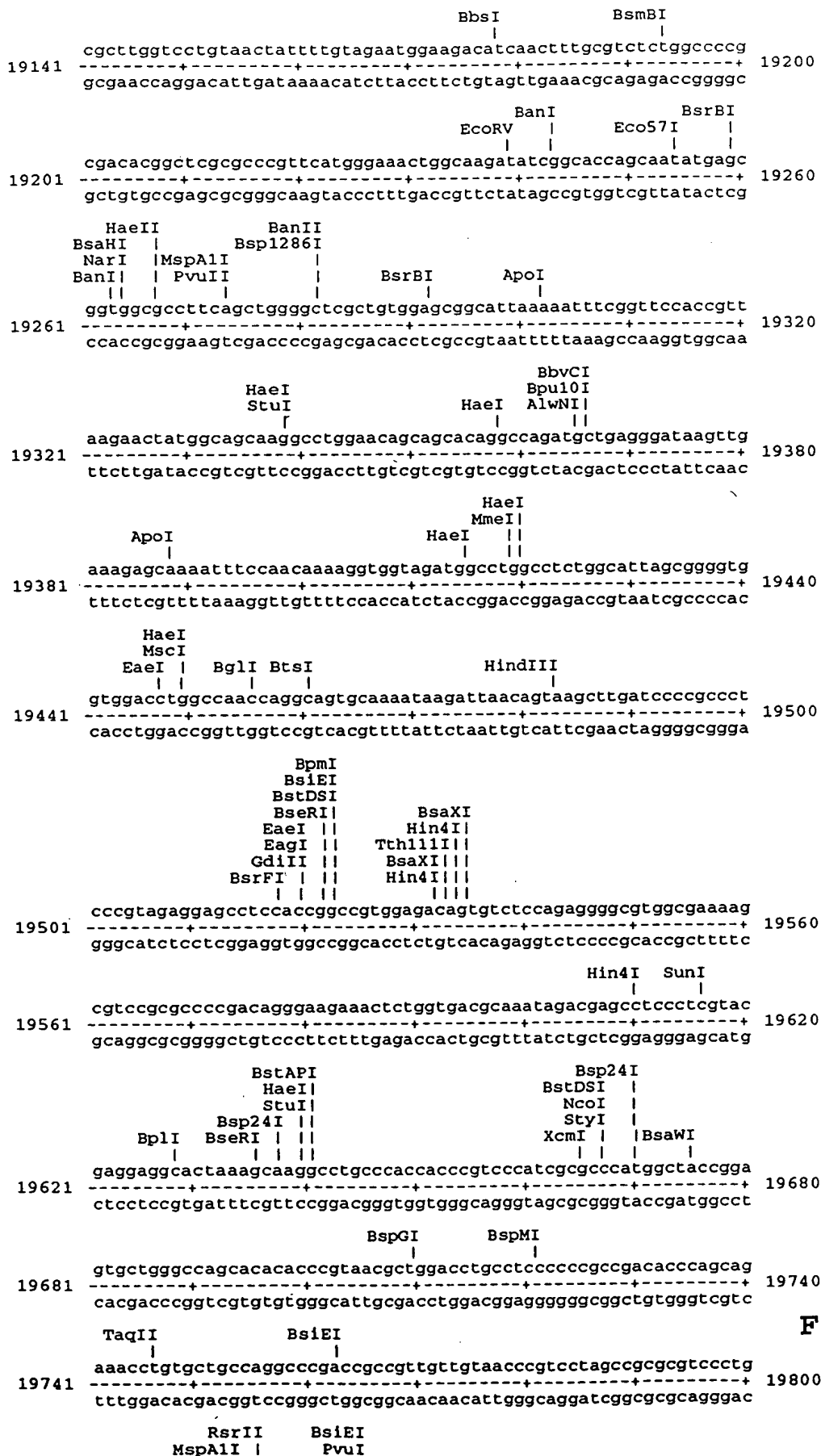
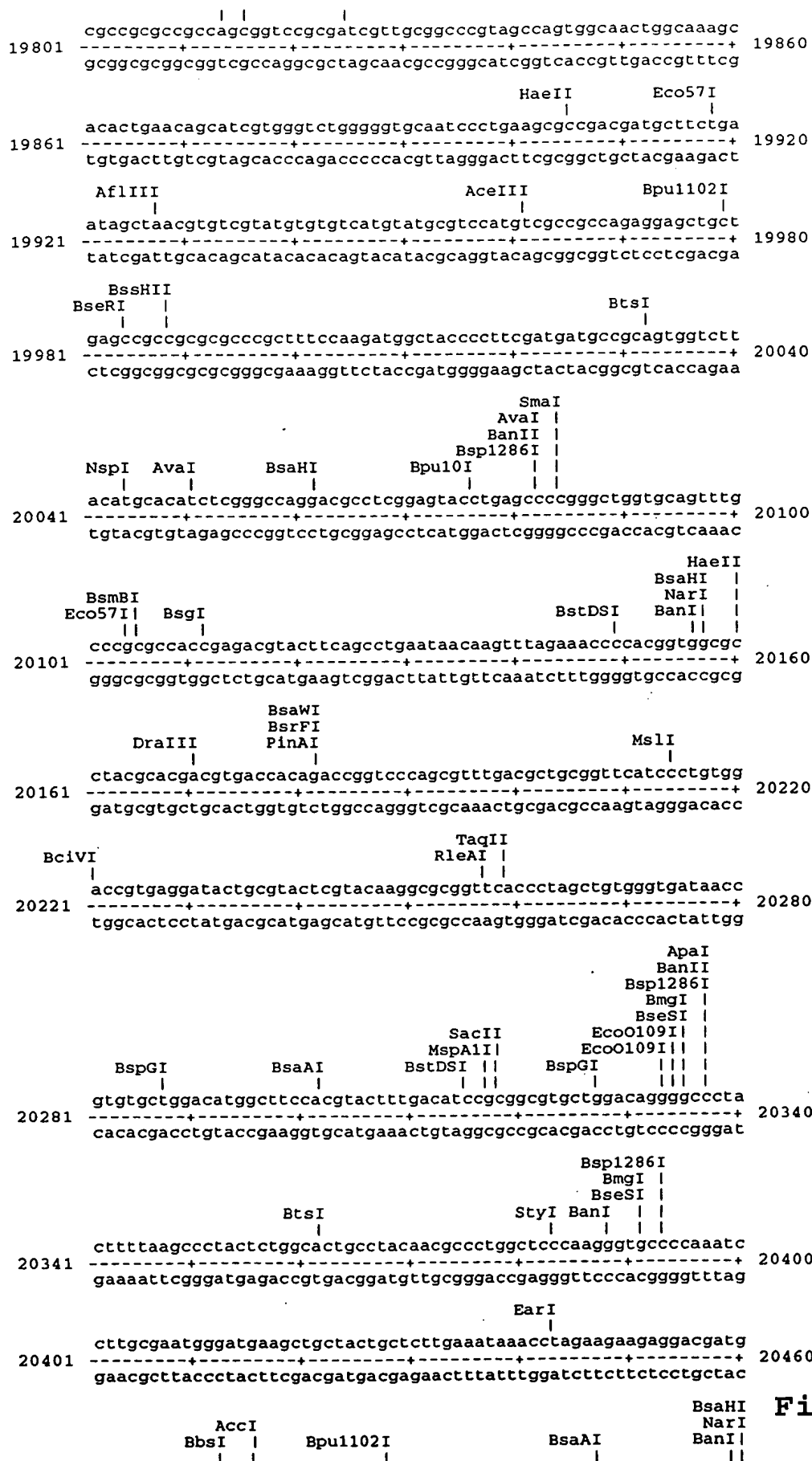


Figure 28CC



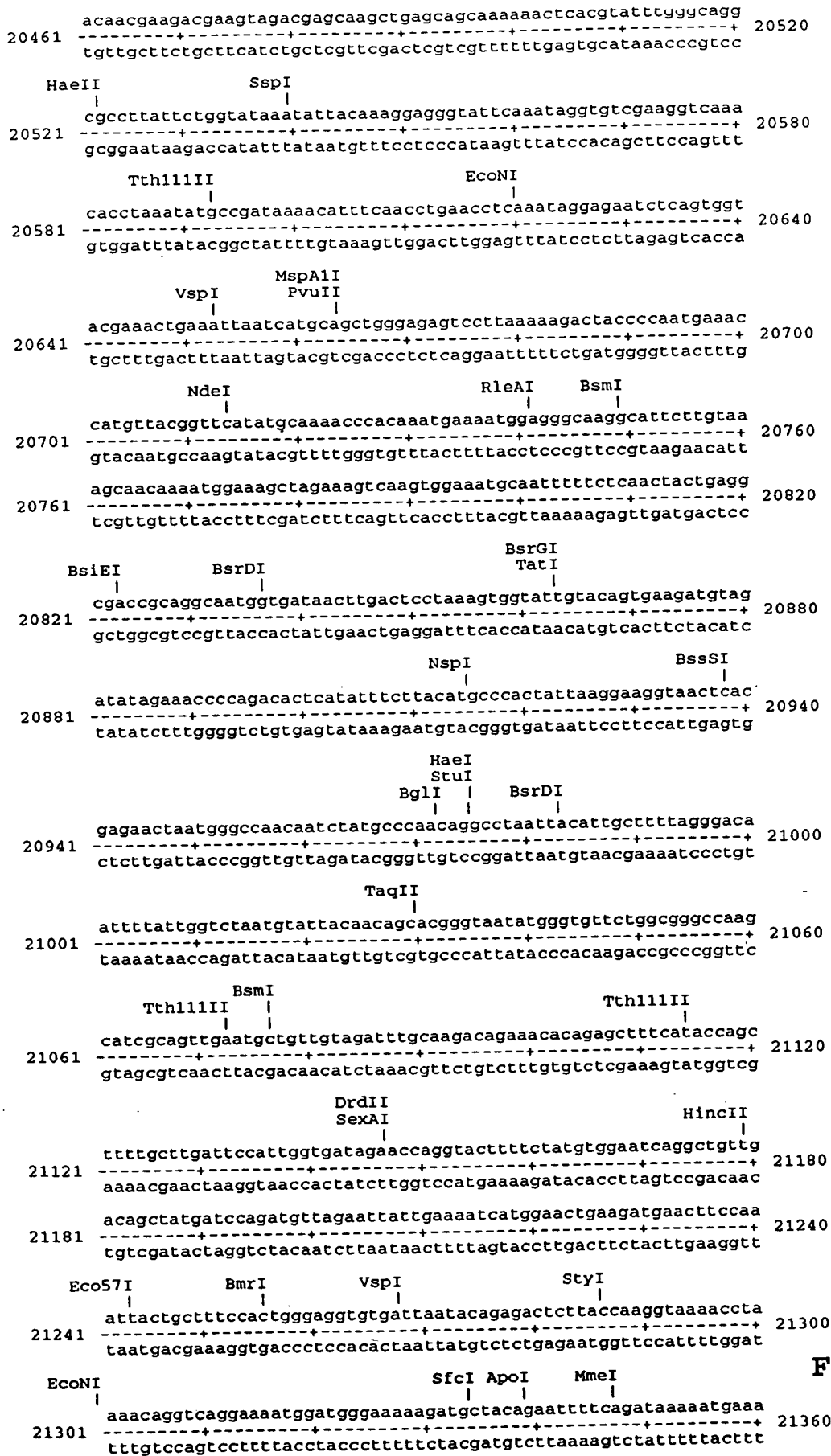


Figure 28EE

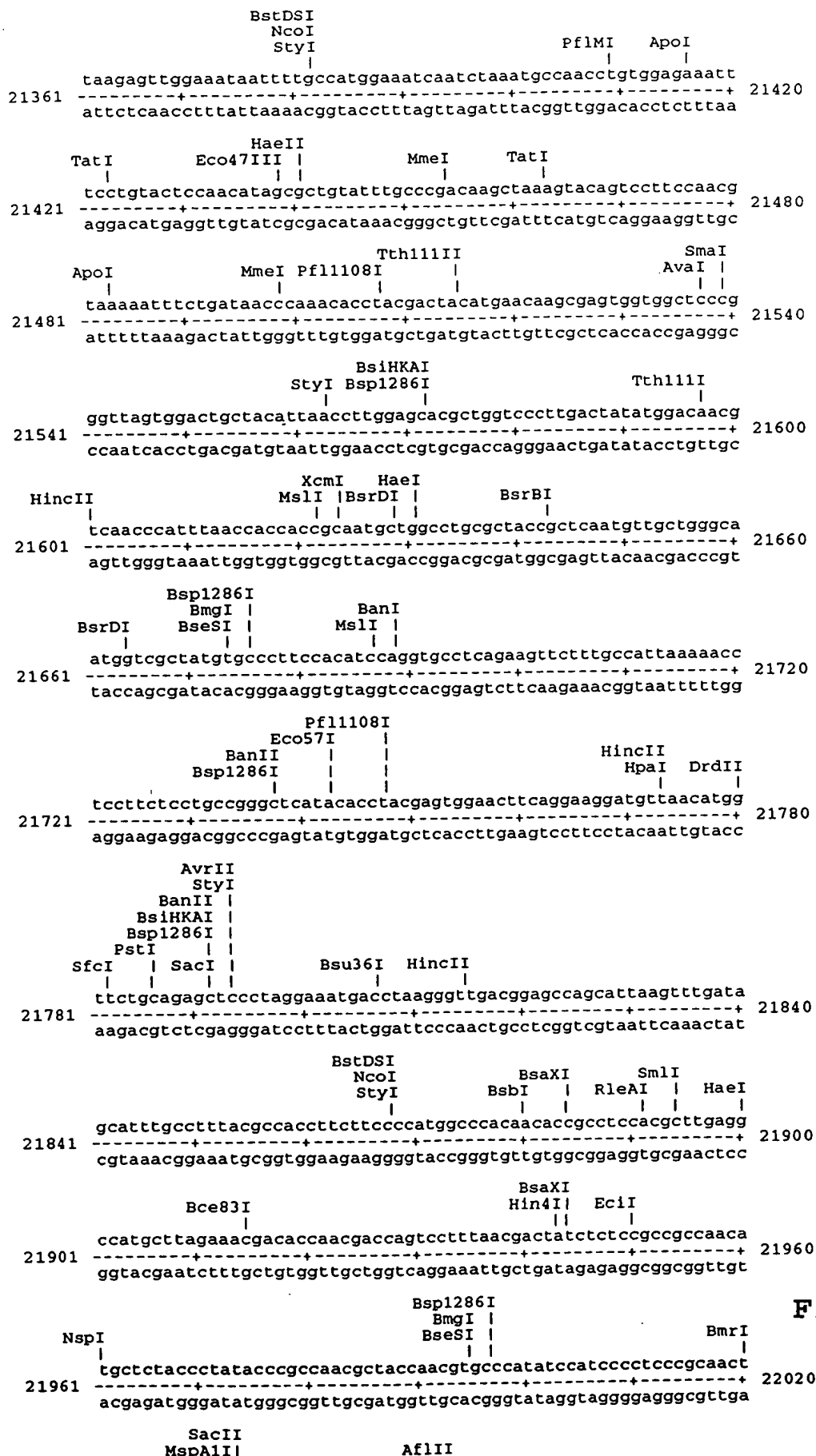


Figure 28FF

BstDSI ||| SmlI BmrI
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 cccgccgaaaggcgccgacccggaagtgcgcggaattctgattccttggggtagtgacc
 Pfl1108I
 BanII |
 Bsp1286I |
 AvaII ||
 22081 gctcgggttacgacccttattacacctactctggctctataccctacctagatggaacct 22140
 cgagcccgatgctgggaataatgtggatgagaccgagatatgggatggatctaccttgga
 HaeI MscI MspAII
 EaeI | EarI | HaeI
 DrdI | PvuII |
 22141 ttacctcaaccacaccttaagaagggtggccattaccttgactcttctgtcagctggc 22200
 aaatggagtggtgtggaaattcttcaccggtaatggaaactgagaagacagtgcgaccg
 BsrDI HaeII Eco47III | HincII
 22201 ctggcaatgacgcctgttaccaccaacgagtttgaaattaagcgctcagttgacgggg 22260
 gaccgttactggcggaacgaatgggggttgctcaaaccttaattcgcgagtcgaactgcccc
 AclI BmrI DrdII NheI
 22261 agggttacaacgttgccagtgtaacatgaccaaagactgggttctctggtacaaatgctag 22320
 tcccaatgttgcaacgggtcacattgtactgggttcttgaccaaggaccatgtttacgatc
 NspI
 TatII ||
 22321 ctaactacaacattgggtaccagggtcttctatatcccagagagctacaaggaccgcatgt 22380
 gattgatgttgtaaccgatgggtcccgaagatatagggtctctcgatgttctctggcgatca
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 22381 actccttctttagaaacttccagcccatgagccgtcagggtggtggatgataactaaataca 22440
 tgaggaagaaatcttgaaggctgggtactcggcagtcaccacctactatgatttatgt
 PflMI BsbI
 22441 aggactaccaacaggtgggcatcctacaccaacacaaactctggatttgttggctacc 22500
 tcctgatggtgtgccaccgtaggatgtggttgtgtgttgagacctaaacaaccgatgg
 HaeI StuI
 22501 ttgccccaccatgcgcgaaggacagggcctaccctgctaacttcccctatccgcttatag 22560
 aacgggggtggtacgcgcttctctgcccggatgggacgattgaaggggataggcgaatatc
 BsiEI PvuI SgfI BpmI
 HincII
 22561 gcaagaccgcagttgacagcattaccagaaaaagtttcttgcgatcgaccccttggc 22620
 cgttctggcgtaactgtcgtaaatgggtctttttcaaagaaacgctagcgtgggaaaccg
 BstDSI NcoI StyI
 22621 gcatccattctccagtaactttatgtccatgggcgcactcacagacctggggccaaaacc 22680
 cgtagggtaagaggtcattgaaatacaggtaccgcgtgagtgcttgaccgggttttgg
 BsaXI EciI BstDSI BamHI NcoI BstYI StyI
 22681 ttctctacgccaactccgcccacgcgctagacatgacttttgaggtggatcccatggacg 22740
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 BsiEI
 EaeI |
 EagI |

Figure 28GG

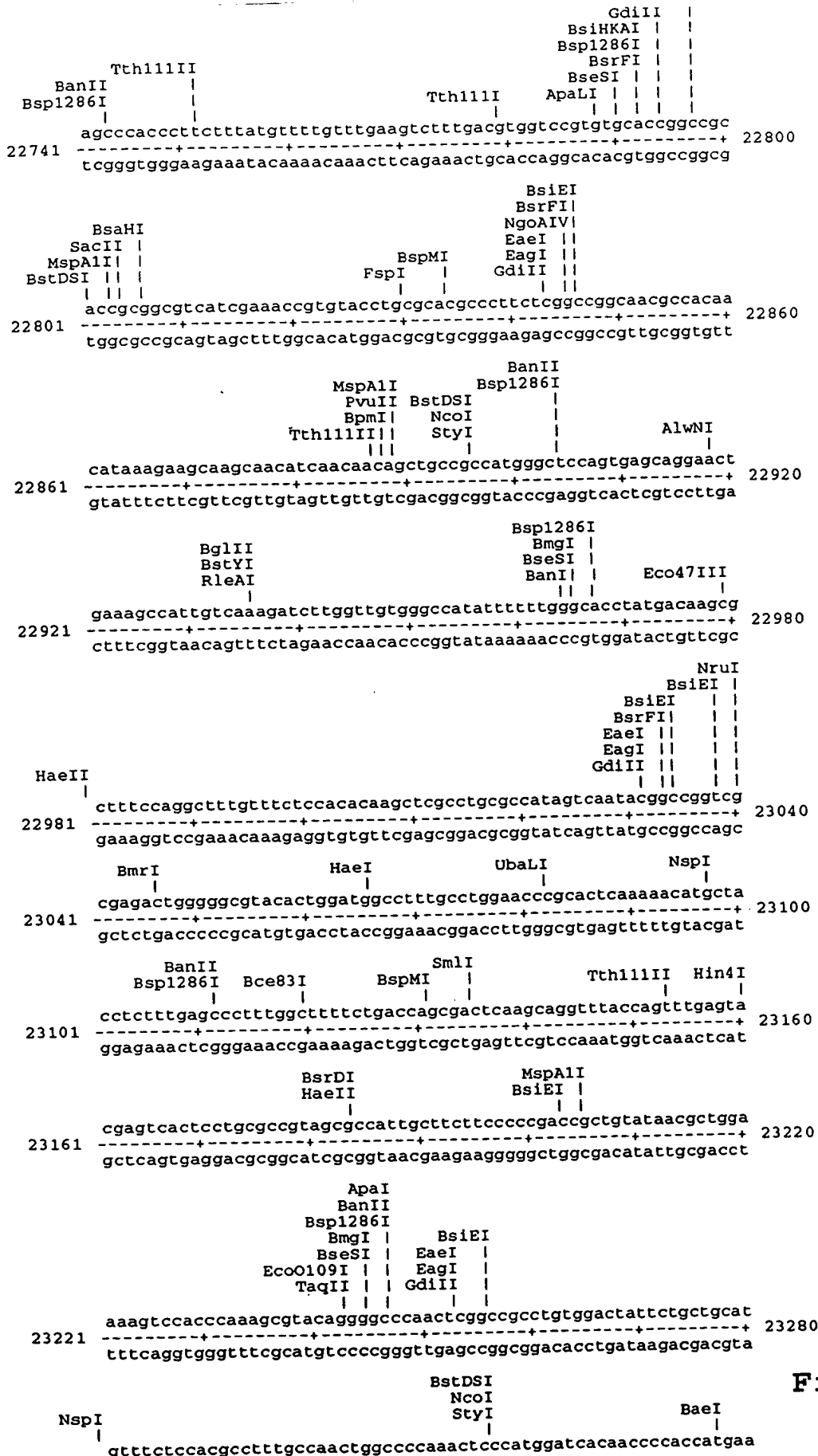
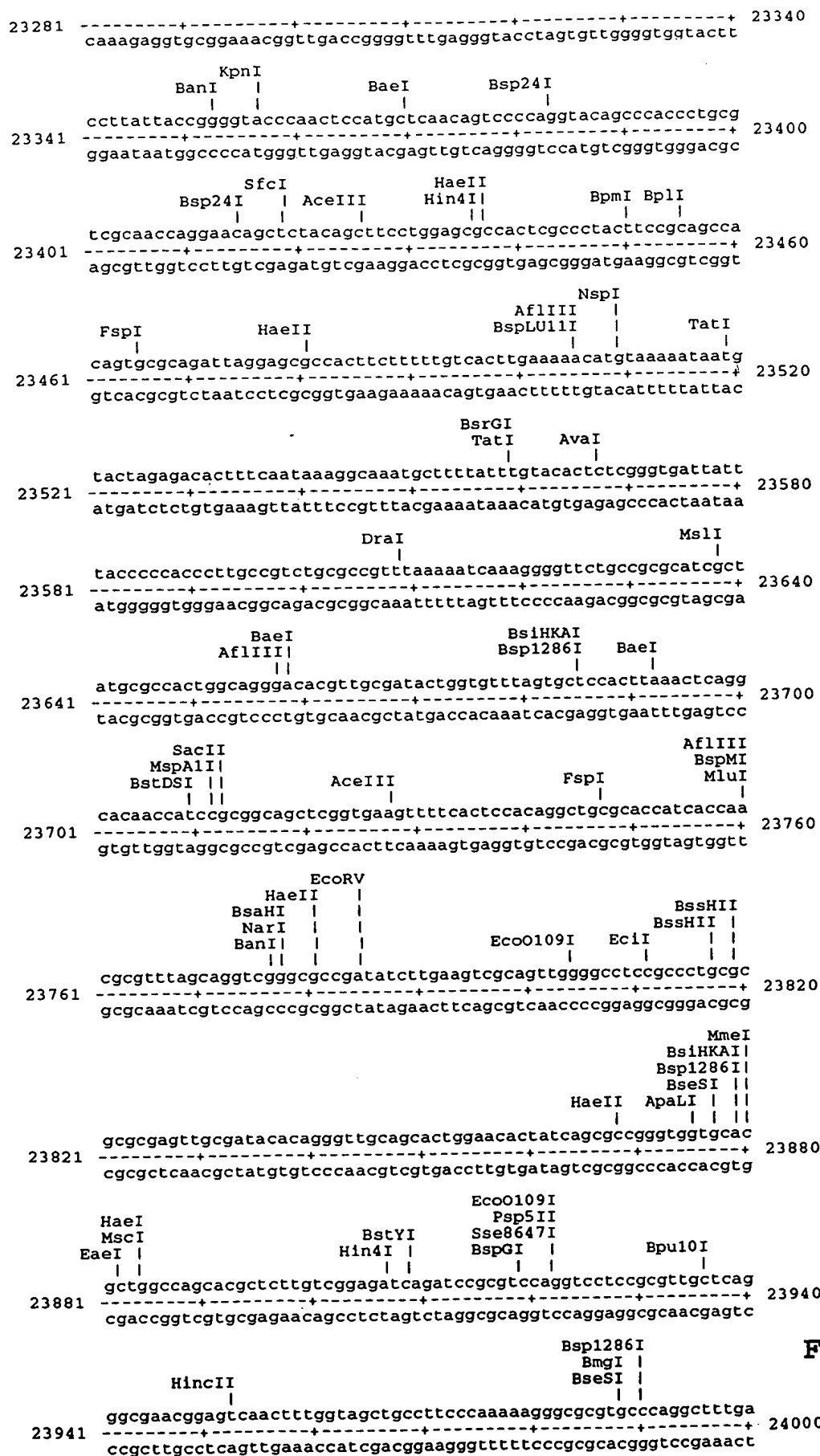


Figure 28HH



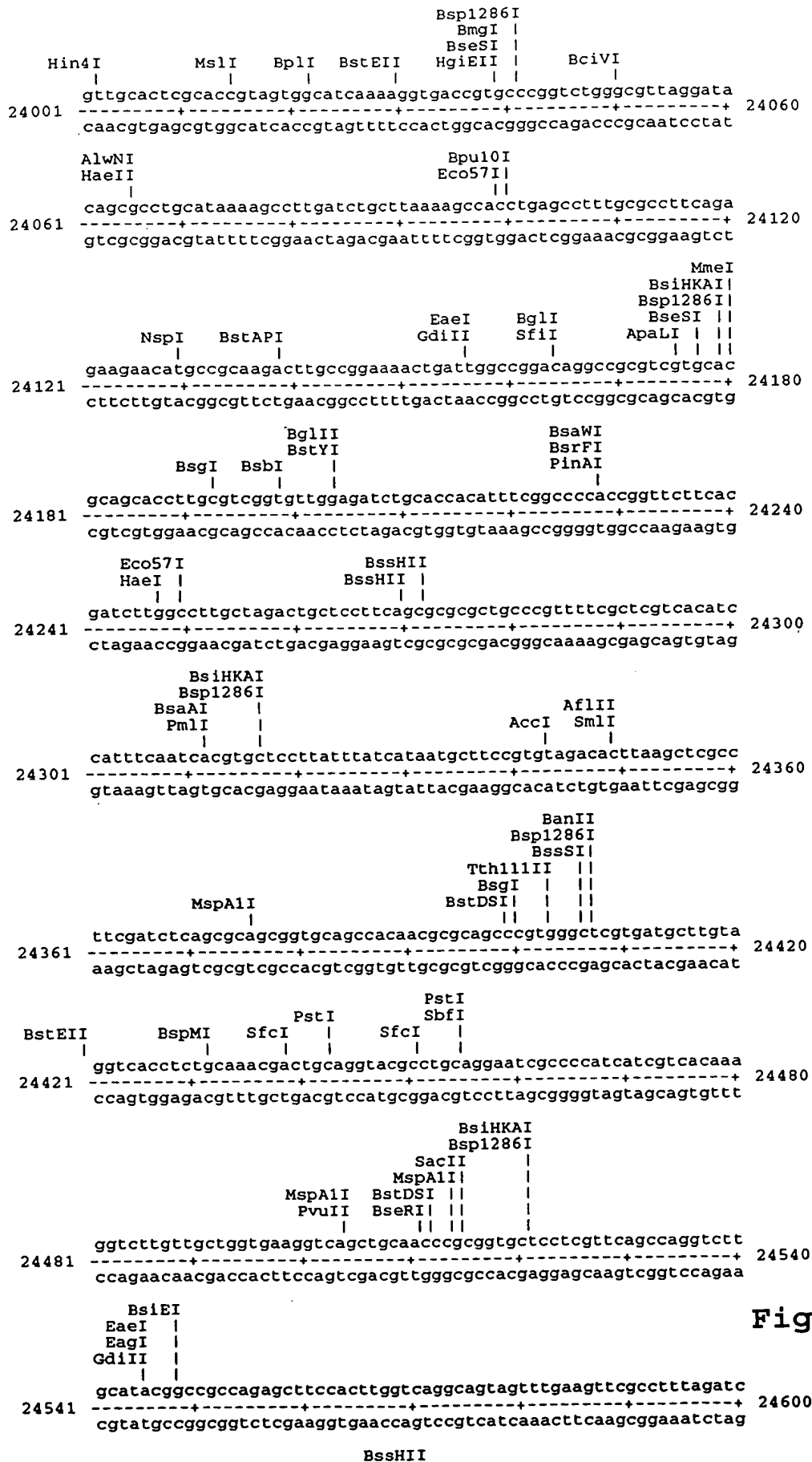
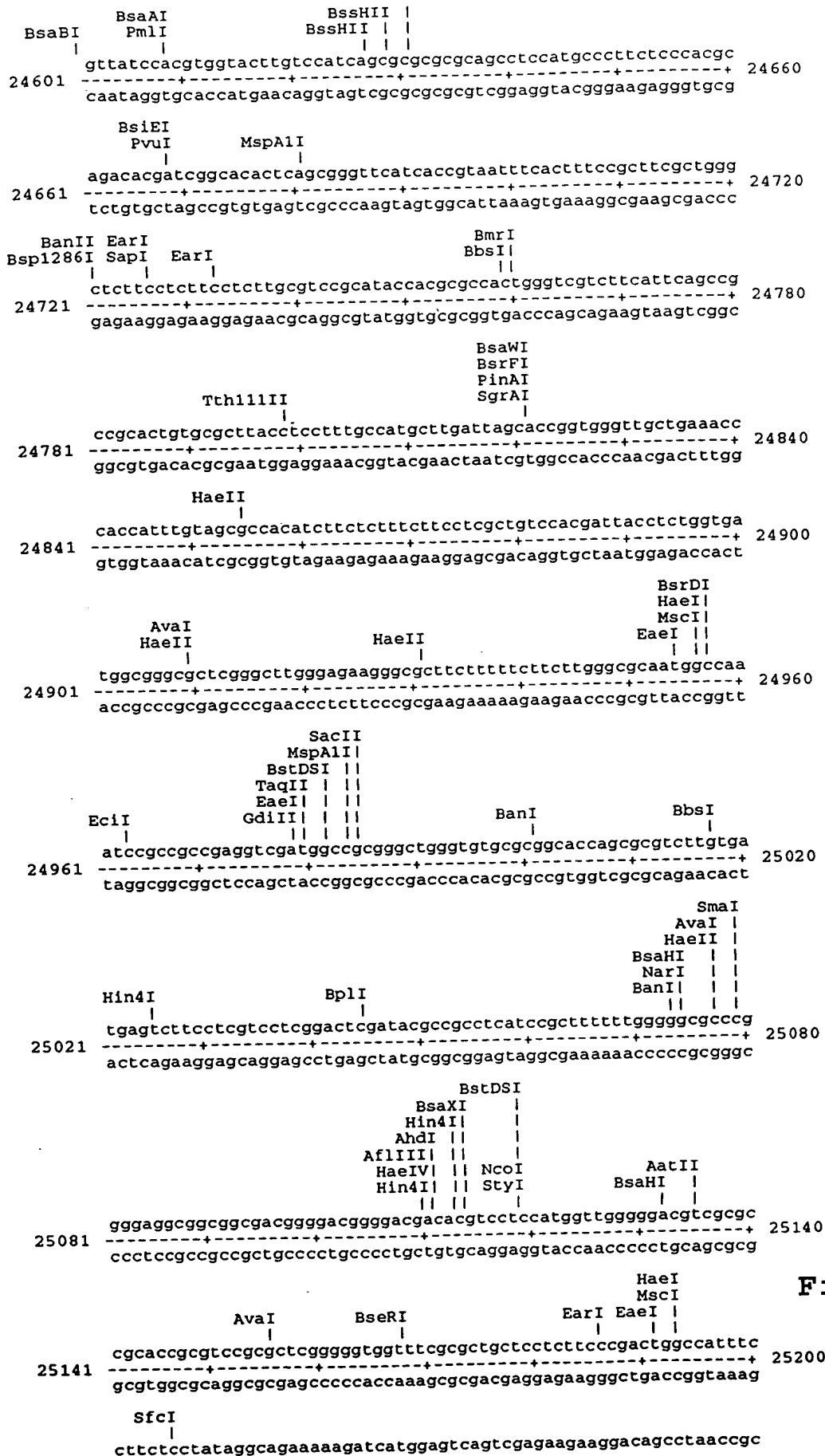


Figure 28JJ



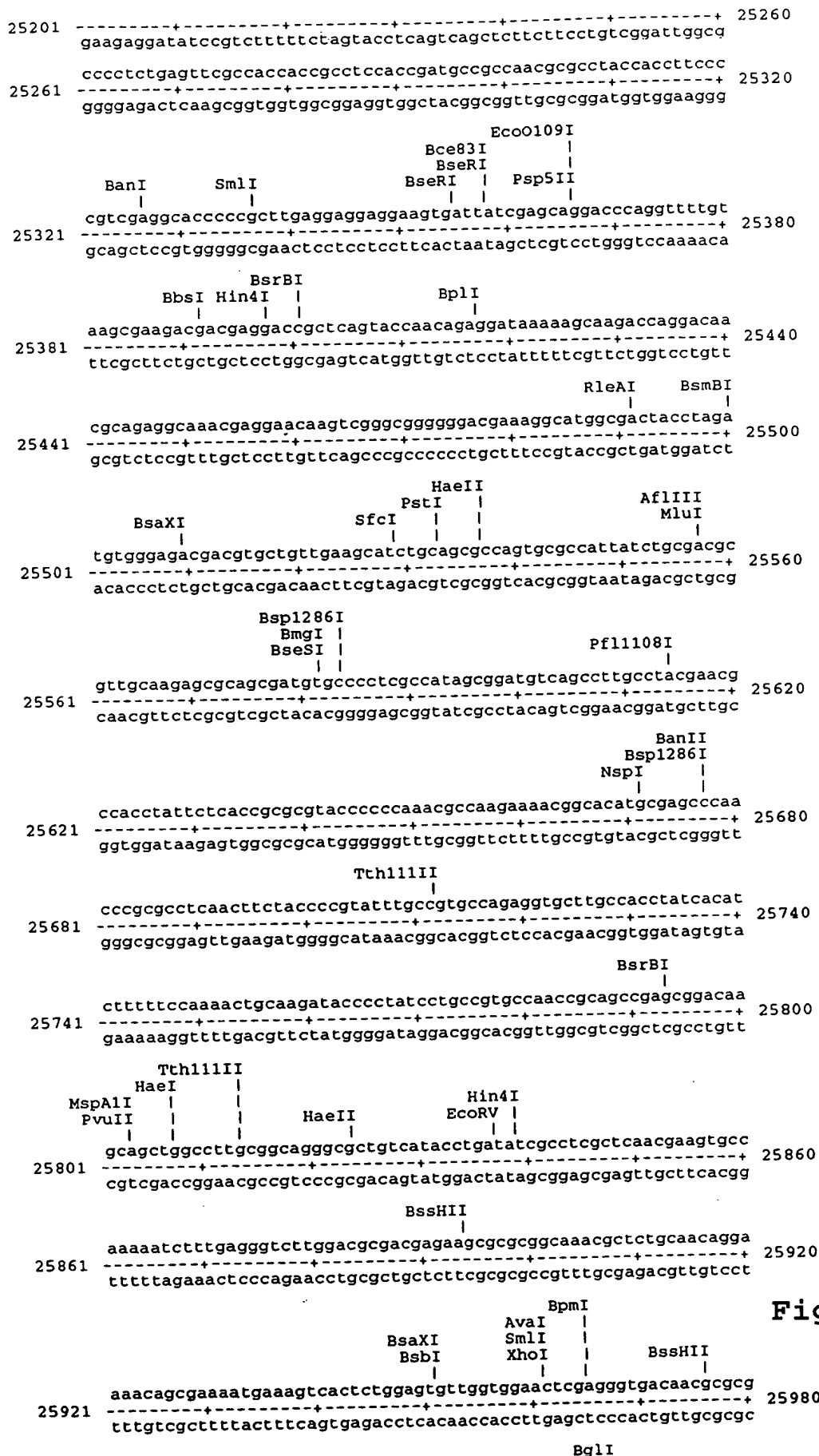


Figure 28LL

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BstEII TaqII

26041 accccccaaggtcatgagcacagtcagtgagtgagtcgctgcccgtgcccagccct 26100

tgggggggtccagttactcgtgtcagttactcactcgactagcacgcggcacgcgtcgggga

RcaI
MslI
AceIII
BsiHKA I
Bsp1286I
HgiEII
StyI RcaI FspI AlwNI

26101 ggagagggtatgcaaatgttgaagaacaaacagaggagggcctaccgcagttggcgacga 26160

cctctccctacgtttaaacgtttctgtttgtctctcccgatgggcccgtcaaccgtgct

ApoI BpmI EcoO109I BseRI

26161 gcagctagcgcgctggcttcaaacgcgcgagcctgccgacttggaggagcgacgcaaac 26220

cgctgatcgccgcgacccaagtttgcgcgctcggaagggtgaacctcctcgctgcgtttga

BssHII
NheI BseRI

26221 aatgatggccgcagtgctcgttacctggagcttgagtgcatgcagcgggttctttgctga 26280

ttactaccggcgtcacgagcaatggcacctcgaactcacgtacgtcgccaagaacgact

BsiHKA I
EaeI Bsp1286I BstDSI BsaXI NspI
GdiII BtsI SmlI SphI Bce83I

26281 cccggagatgcagcgaagctagaggaaacattgcactacacctttcgacagggtacgt 26340

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BsrDI BsaAI
SnaBI
SunI

26341 acgccaggcctgcaagatctccaacgtggagctctgcaacctgggtctcctaccttggaa 26400

tgccgtccggacgttctagaggttgacactcgagacgttggaccagaggatggaacctta

BanII
BsiHKA I
Bsp1286I
HaeI BglII
StuI BstYI
MmeI
BsaXI
StyI
SexAI
BsaI
ApoI

26401 tttgcacgaaaaccgccttgggcaaaacgtgcttcattccacgctcaagggcgaggcgcg 26460

aaacgtgcttttggcggaaccggttttgcacgaagtaagtgcgagttcccgtccgcgc

Bce83I
StyI BstAPI SmlI AscI
BssHII

26461 cgcgactacgtccgcgactgcggtttacttatttctatgtctacacctggcagacggccat 26520

ggcgctgatgcaggcgtgacgcaaatgaataaagatacgtgtggaccgtctgcccgtta

Tth111II
BstDSI
NcoI
StyI
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GdiII

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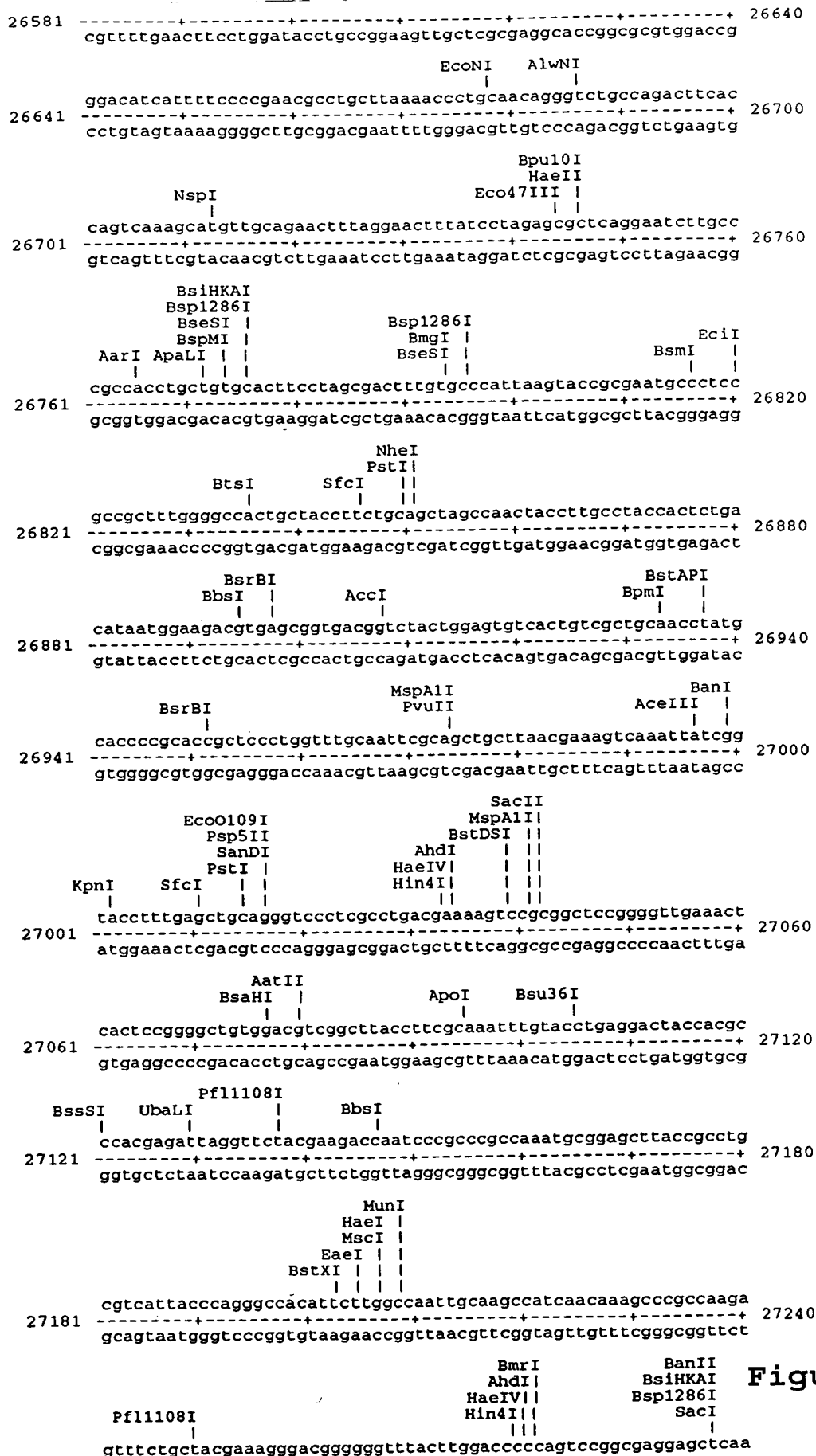
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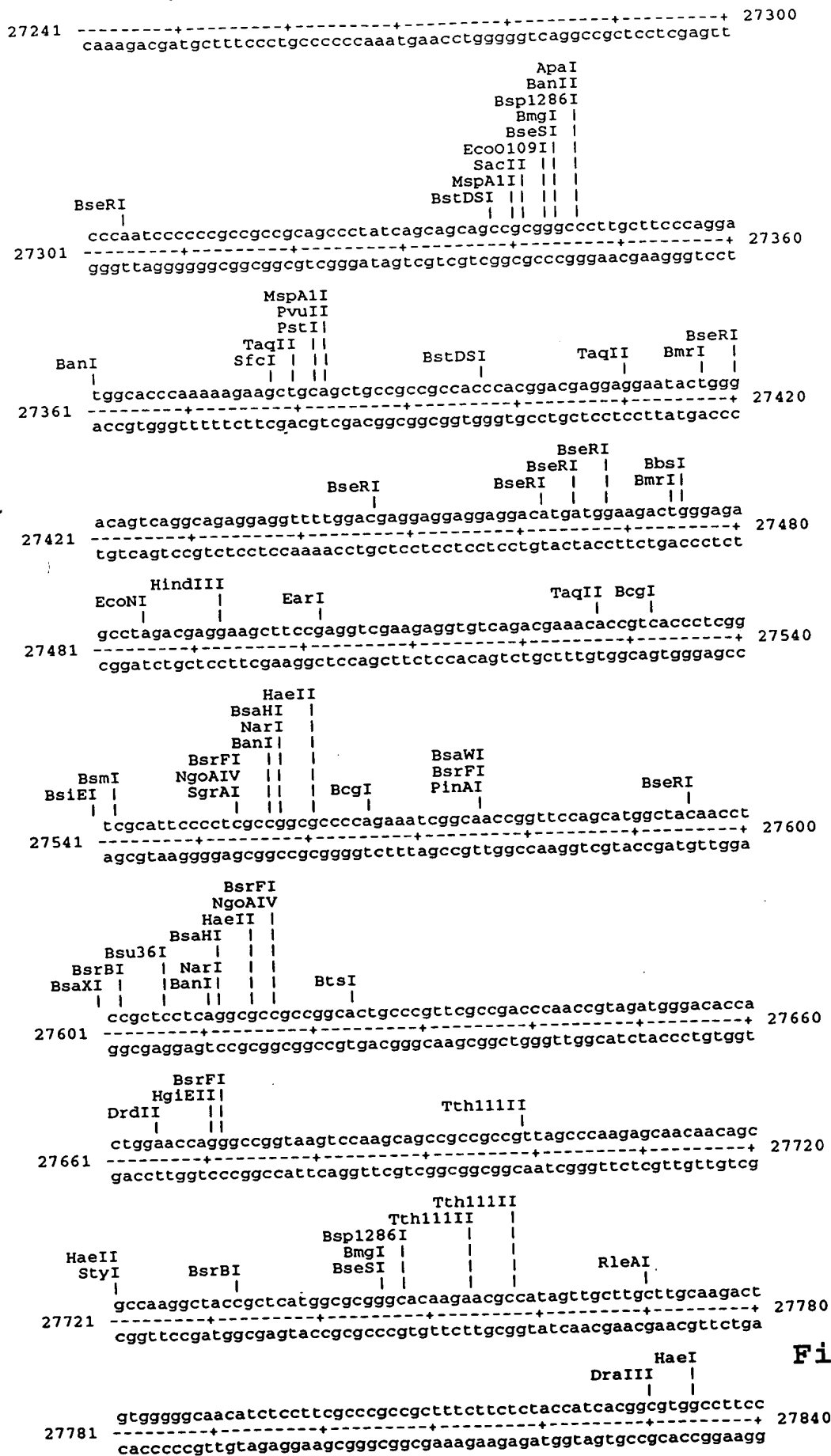
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PstI
Bce83I
BtsI
AceIII
SmlI
BseRI
SfcI

26581 gcaaaacttgaaggacctatggacggccttcaacgagcgcgtccgtggccgcgcacctggc

EaeI
GdiII
BstDSI
HaeII
EcoO109I
Psp5II
Sse8647I
Eco47III
BsaXI
EciI

Figure 28MM





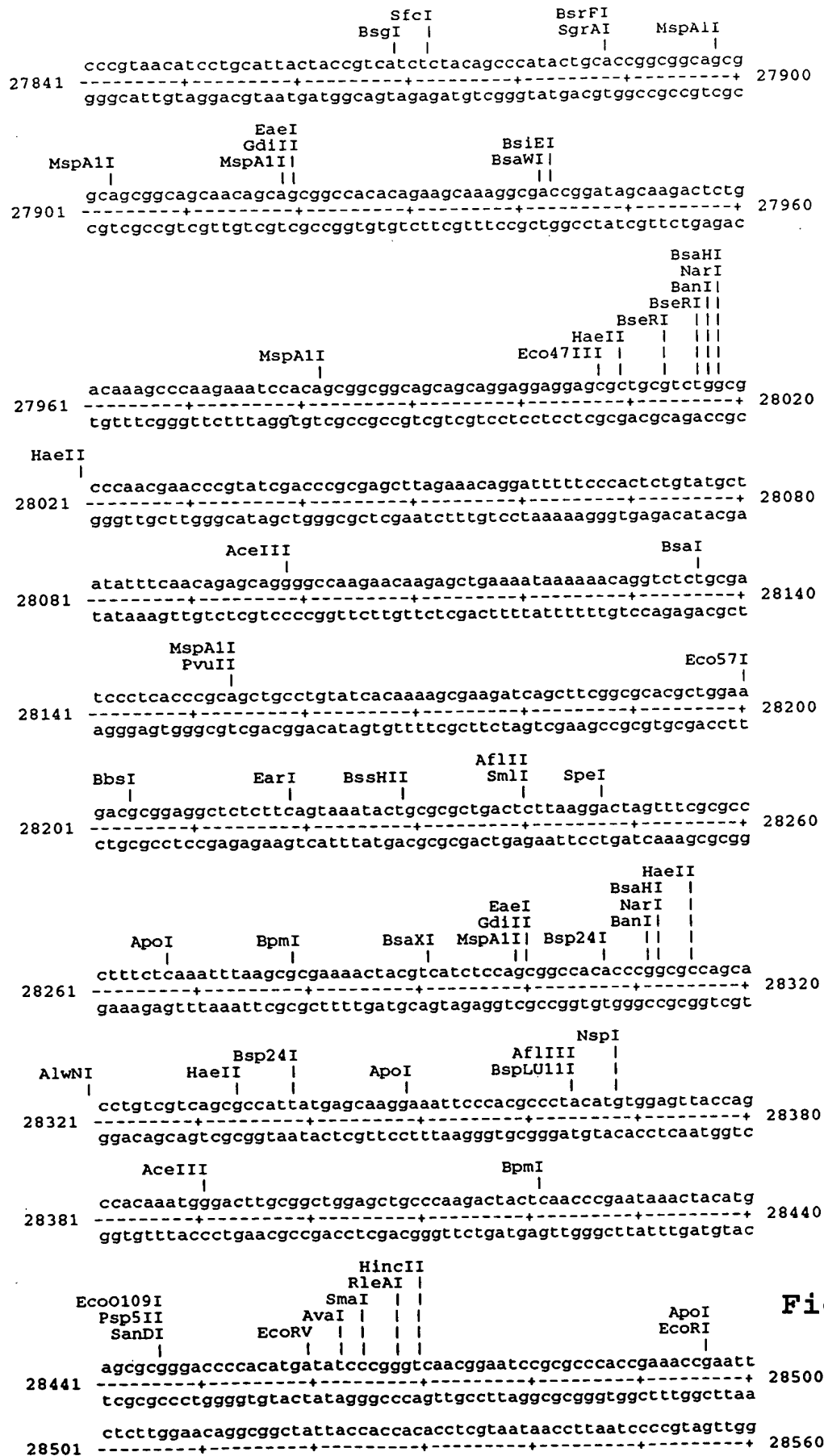
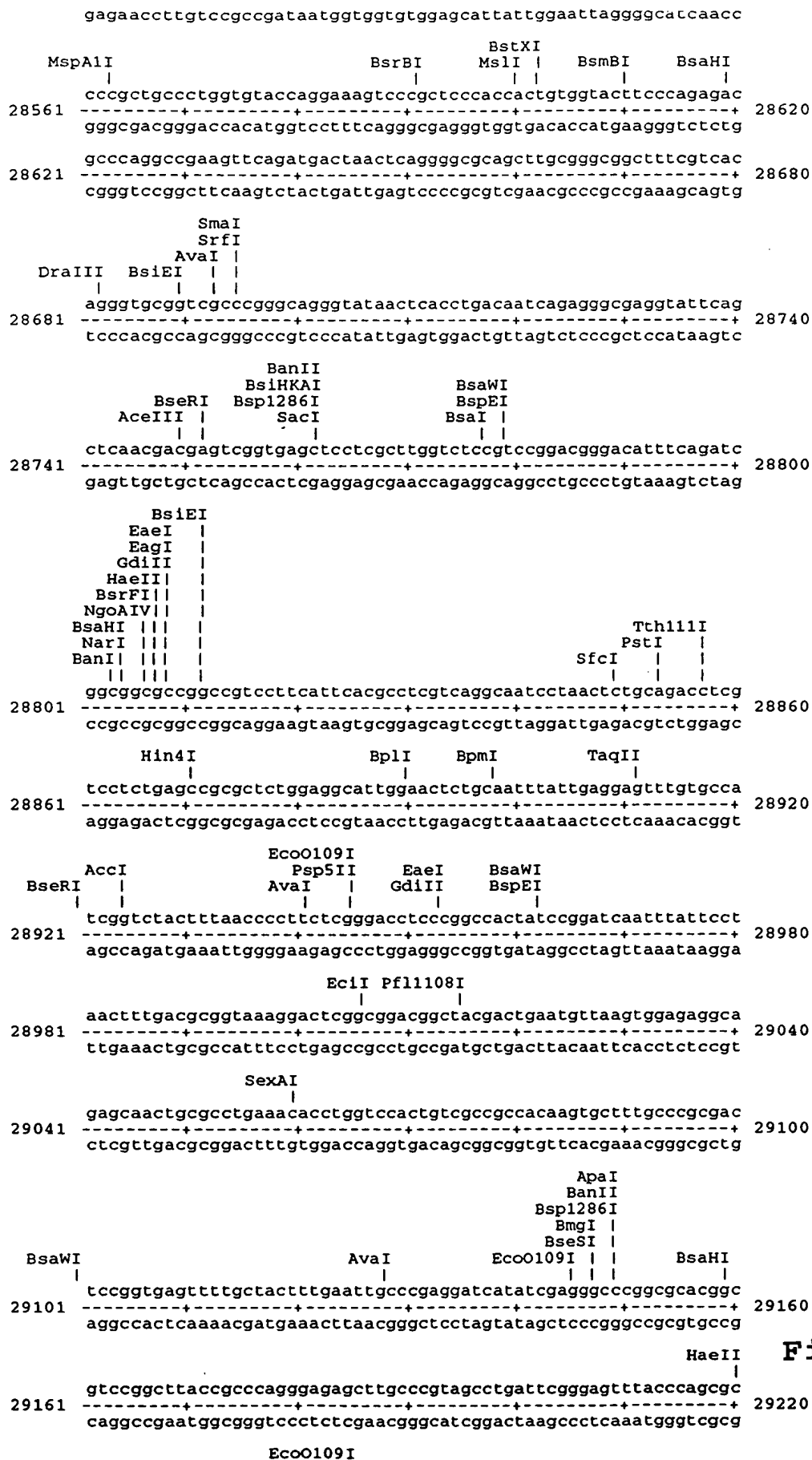


Figure 28PP



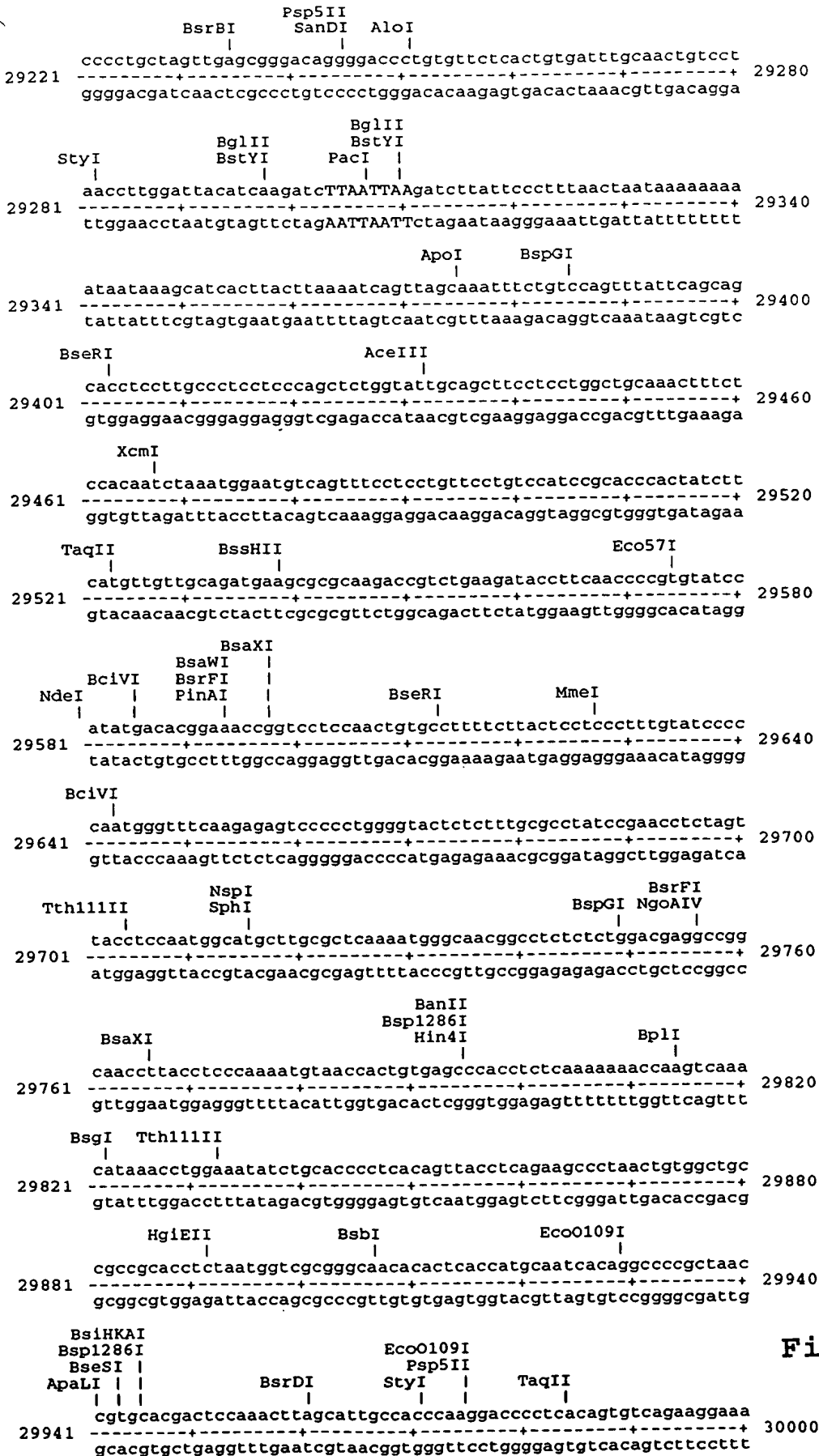


Figure 28RR

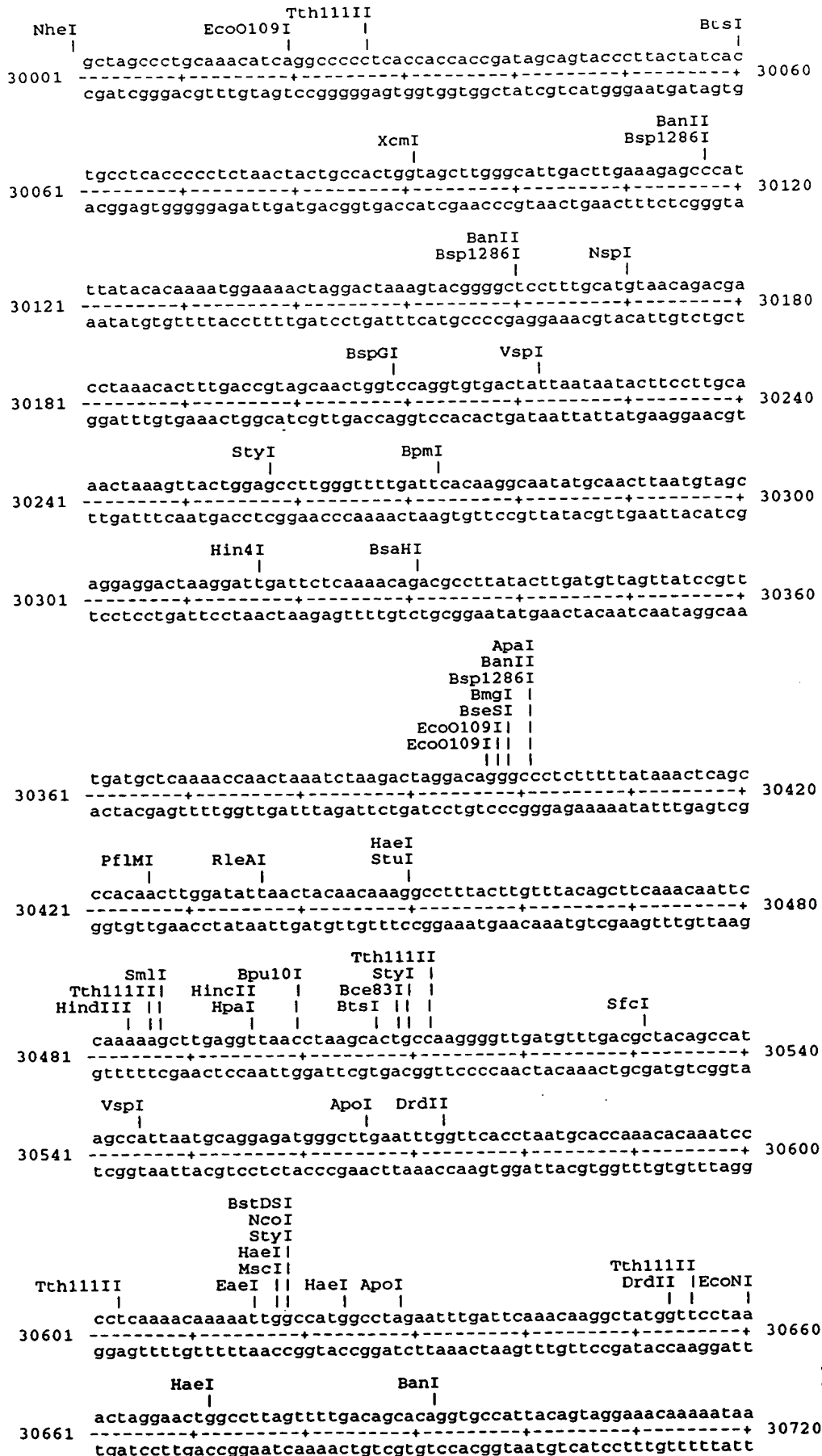


Figure 28SS

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30781 gaaagatgctaaactcactttgggtcttaacaaaaatgtggcagtcataacttgctacagt 30840
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30841 ttcagttttggctgttaaggcagtttggctccaatatctggaacagttcaaagtgtctca 30900
 aagtcaaaaccgacaatttccgtcaaaccgaggttatagacctgtcaagtttcacgagt

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30961 atattggaactttagaaatggagatcttactgaaggcacagcctatacaaaacgctgttgg 31020
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31081 tgtcagtcagtttacttaaacggagacaaaaactaaacctgtaacactaaccattacact 31140
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31141 aaacggtacacaggaacaggagacacaactccaagtcatactctatgtcattttcatg 31200
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31201 ggactggtctggccacaactacattaatgaaatatttgccacatcctcttacactttttc 31260
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31261 atacattgccaagaataaagaatcggtttgtgtatgtttcaactgtttatttttcaat 31320
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31501 gggtaacagacatatcttaggtgttatattccacaggtttcctgtcgagccaaacgct 31560
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31561 catcagtgatattaataaaactccccgggcagctcacttaagttcatgtcgctgtccagct 31620

Figure 28TT

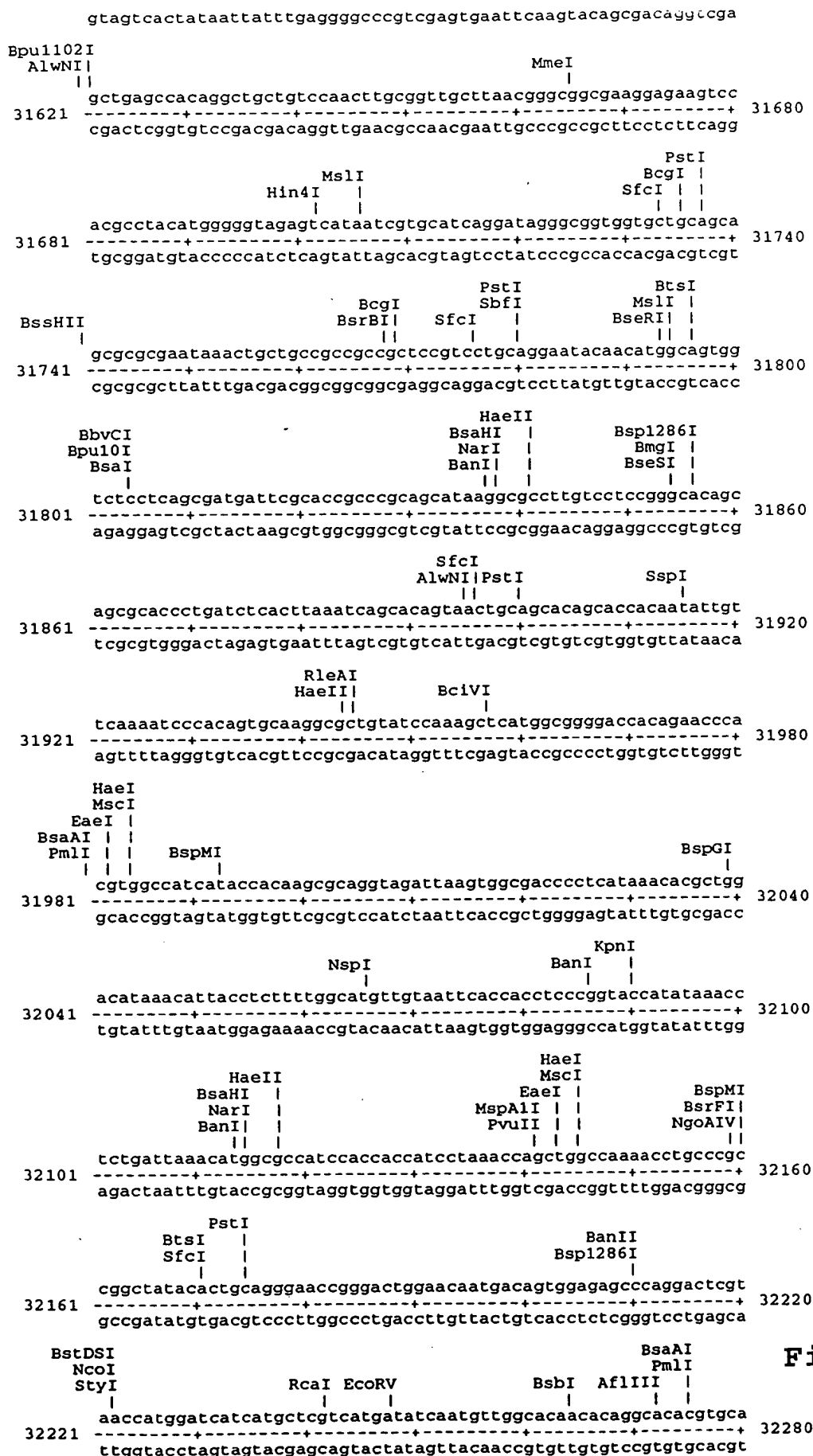


Figure 28UU

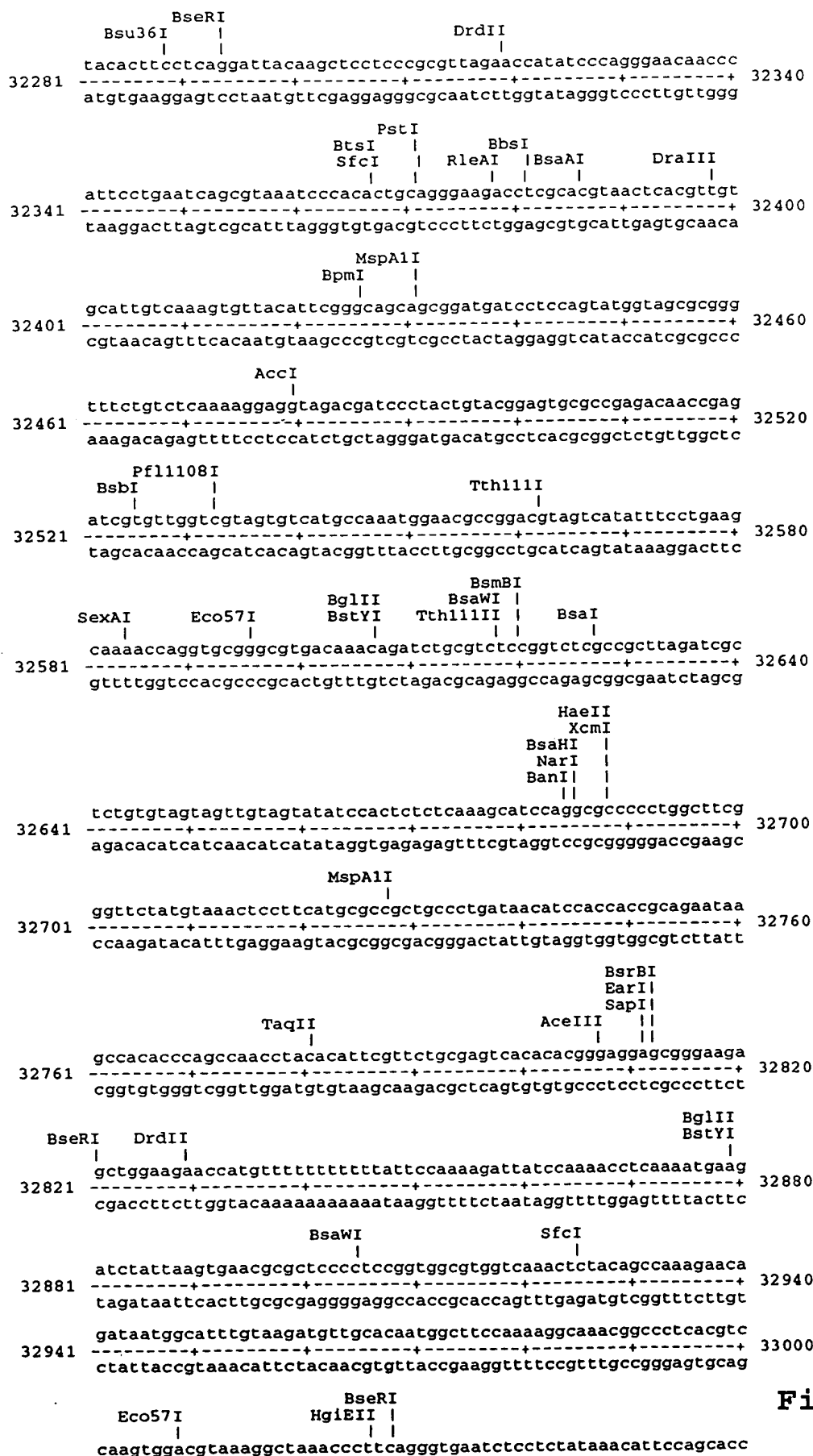


Figure 28VV

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33061 -----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 33120
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aagttggtacgggtttattaagagtagagcgggtggaagagttatatagagattcgtttag
33121 -----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 33180
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ggcttataattcaggccggttaacatttttagacgaggtctcgccggaggtggaagtcgga
33181 -----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 33240
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gttcgctgcttagtactaacgtttttaagccaaggaggtgtctggacatattctaagttt
33241 -----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 33300
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33301 -----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 33360
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33361 -----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 33420
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TaqII
 SmaI
 AvaI
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 VspI
 AvrII
 StyI
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 RleAI
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 BsaAI SnaBI BsbI EciI
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Enzymes that do cut:

AarI	AatII	AccI	AceIII	AcII	AflII	AflIII	AhdI
AloI	AlwNI	ApaI	ApalI	ApoI	AscI	AvaI	AvrII
BaeI	BamHI	BanI	BanII	BbsI	BbvCI	Bce83I	BcgI
BciVI	BclI	BglI	BglII	BmgI	BmrI	BplI	BpmI
Bpu10I	Bpu102I	BsaI	BsaAI	BsaBI	BsaHI	BsaWI	BsaXI
BsbI	BseRI	BseSI	BsgI	BsiEI	BsiHKAI	BsmI	BsmBI
Bsp24I	Bsp1286I	BspEI	BspGI	BspLU11I	BspMI	BsrBI	BsrDI
BsrFI	BsrGI	BssHII	BssSI	BstAPI	BstDSI	BstEII	BstXI
BstYI	BstZ17I	Bsu36I	BtsI	ClaI	DraI	DraIII	DrDI
DrDI	EaeI	EagI	EarI	EcII	Eco47III	Eco57I	EcoNI
EcoO109I	EcoRI	EcoRV	FseI	FspI	GdiII	HaeI	HaeII
HaeIV	HgiEII	Hin4I	HincII	HindIII	HpaI	KpnI	MluI
MmeI	MscI	MslI	MspAII	MunI	NarI	NcoI	NdeI
NgoAIV	NheI	NotI	NruI	NsiI	NspI	PacI	Pfl1108I
PflMI	PinAI	PmeI	PmlI	PshAI	Psp5II	PstI	PvuI
PvuII	RcaI	RleAI	RsrII	SacI	SacII	SalI	SanDI
SapI	SbfI	ScaI	SexAI	SfcI	SfiI	SgfI	SgrAI
SmaI	SmlI	SnaBI	SpeI	SphI	SrfI	Sse8647I	SspI
StuI	StyI	SunI	SwaI	TaqII	TatI	Tth111I	Tth111II
UbaLI	VspI	XbaI	XcmI	XhoI	XmnI		

Enzymes that do not cut:

NspV

84 / 85

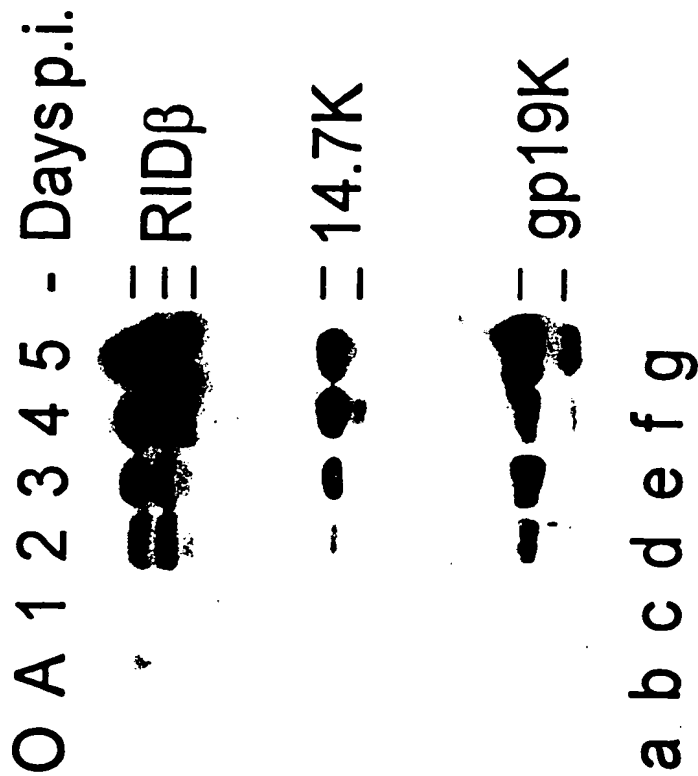


Figure 29

14.7K



Figure 30C

RID β



Figure 30B

gp19K

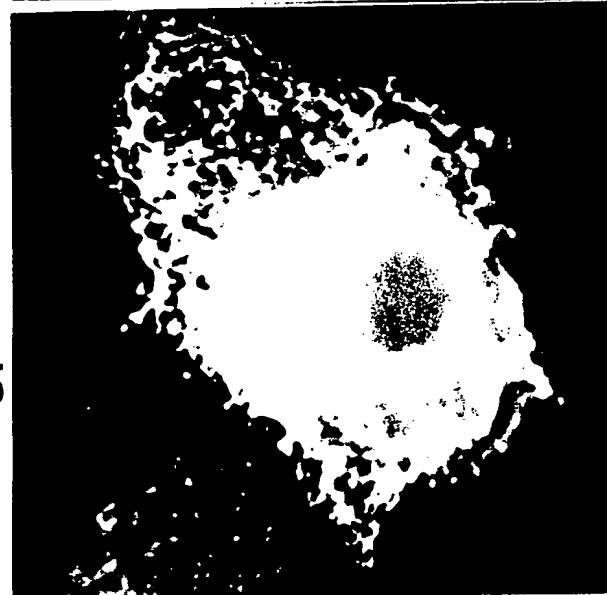


Figure 30A